DATALOGIC™

DATALOGIC SCANNING

Datalogic is Europe's largest manufacturer of bar code scanning devices, mobile terminals, RFID systems and sensors for industrial automation. The company distinguishes itself through innovative solutions for the manufacturing industry, transport, as well as trade and logistics.

Romano Volta founded the company in 1972 and began production of photoelectric sensors for automation. When bar code technology emerged at the end of the 70s, Datalogic was among the first to see its potential. The company started to develop bar code scanning devices and eventually became the premier manufacturer for data collection hardware in Europe. Excellent workmanship and outstanding product design quickly convinced customers in industry, production and trade.

Nowadays, Datalogic, headquartered in Bologna, Italy, employs more than 2,000 employees in over thirty countries. Datalogic has been quoted on the Italian stock market since 2001 and achieved a turnover of 379 billion euros in 2008.

Awarded with more than 850 patents, Datalogic continually invests in research and development. Over 300 engineers are working on new technologies and products in the research centres.

With subsidiaries in more than 30 countries and more than 1,000 partners worldwide, Datalogic has international operations and delivers its products to leading companies from all branches.

Clearly an advantage is Datalogic's wide range of scanning hardware. From simple touch readers for retail via extremely robust high-performance imager scanners for logistics and industrial applications to portable and rugged WLAN terminals that run Windows CE: when it comes to automatic identification, you´ll find a professional solution for every application within the Datalogic product range. Robust vehicle terminals offer you a wide range of applications in logistics and shipping.

In order to allow you to react competently to your customers wishes and specific requirements, we have almost every device version in stock for rapid delivery.

Bar Code Basics

Why use automatically identification

Modern automated warehouses, conveyor belts and manufacturing facilities increasingly require the implementation of identification systems.

One of the main requirements of the production process is the link between the information and the material flow. Thus, objects can be identified in real-time locations, which results in increased flexibility in every phase of the work process. Optical identification represents approximately 75 percent of all identification systems currently in use.

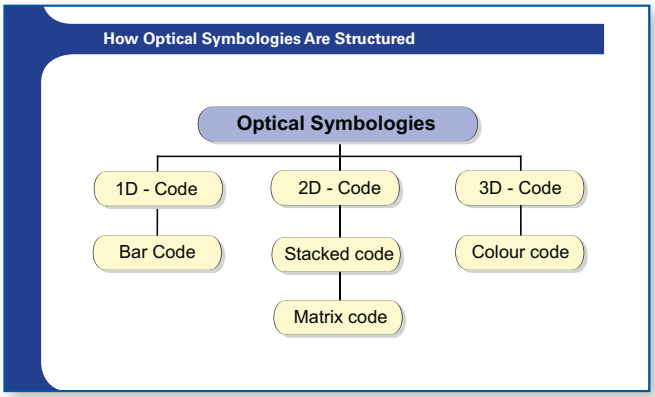
Thanks to bar codes, printed data can be easily and automatically read by means of a reading device. Bar code applications can be found in all fields of industry, retail, in the public sector and in everyday life. Moreover, a series of codes have been developed which can no longer be defined as bar codes, but as matrix codes, like the Data Matrix or MaxiCode. These two-dimensional codes are used mainly in the logistics field.

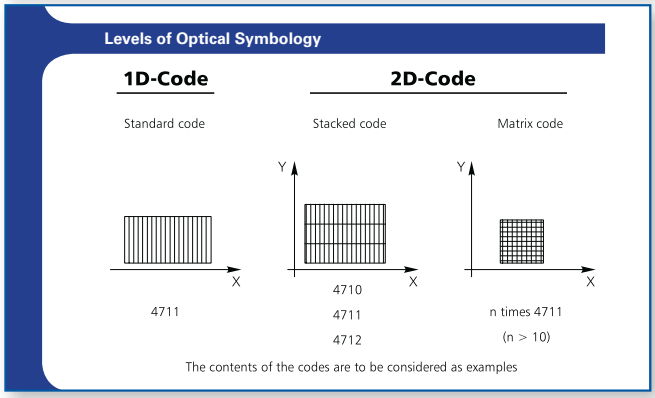
The information encoded in a bar code can be optically read by means of a special device. It must be taken into account that surrounding conditions can considerably influence the reading and therefore the correct identification of the code. For example, if the information contained in a label is not correctly decoded, the item may be sent to the wrong location or even be destroyed. Bar codes can be found on moving objects, delivery notes, warehouse schedules, identifying plates, labels, etc. With respect to directly printing characters on objects by means of laser or ink-jet, labels have the advantage of being printed before being used. In this case, the place where the code is printed and used can be different, and this enables a low-cost and high-quality mass production in printing works.

Thanks to technological progress in opto-electronics, today data printed in a certain format can be automatically read and then downloaded to a computer by means of standardised interfaces. A bar code on a stationary object can be read by means of any hand-held reading device.

With a fixed-position laser scanner or a CCD-scanner, codes can be read at a remote distance on both moving and stationary objects. Automatic identification and today's computer technology have given industry improved control systems for managing transportation and production processes, as well as warehouses. Moreover, automatic identification systems simplify data management with regard to the issuance of warehouse and transportation documents (delivery notes, invoices, packing notes, etc.)

Markets according to optical Coding	Manu-factoring	Couriers	Food and Beverage	Retail	Electronic Industry	Automotive Industry	Pharmaceuti-cal Industry	Transport/ Logistics
1D-Codes	✓	✓	✓	✓	✓	✓	✓	✓
2/5 Interleaved	✓	✓	✓	–	✓	–	✓	✓
Code 39	✓	✓	–	–	✓	✓	–	✓
Code 128	✓	✓	–	–	✓	–	✓	✓
EAN 128	✓	✓	✓	✓	✓	–	–	✓
EAN	✓	–	✓	✓	✓	–	–	✓
RSS / GS 1 DataBar	–	–	✓	✓	✓	–	✓	–
2D-Codes	✓	✓	–	–	✓	–	✓	✓
Stacked Codes	–	–	–	–	–	–	✓	✓
Code 16K	–	–	–	–	–	–	–	–
Code 49	–	–	–	–	–	–	–	–
Codablock	–	–	–	–	–	–	✓	–
PDF 417	–	–	–	–	–	–	–	✓
Matrix Codes	✓	✓	–	–	✓	–	✓	✓
Data Matrix	✓	–	–	–	✓	–	✓	–
Maxi Code	–	✓	–	–	–	–	–	✓





Why 1D-Codes

Although a relatively recent technology, the world of bar codes is in continuous evolution. In the period between 1970 and 1980 all standard bar codes were developed, such as 2/5 Interleaved, Codabar, EAN/UPC, Code 39 and Code 128. At the same time, a number of special codes were created to meet the needs and demands of particular fields or applications. This is the case with Code 11, IBM Delta Distance, MSI-Code and many others. Only the best and most widely used bar code symbologies have survived and, in fact, since April 1993 the following bar codes have become the world-wide and European standard.

European standards:

- EN 797 Bar code Symbology EAN/UPC ,
- EN 798 Bar code Symbology Codabar
- EN 799 Bar code Symbology Code 128
- EN 800 Bar code Symbology Code 39
- EN 801 Bar code Symbology Code 2/5 Interleaved

The use of the 5 above-mentioned 1-D codes is further restricted. In trade, EAN has always been the standard, while in industry, especially in materials handling, logistics and warehouse management, Code 128 and EAN128 are increasingly used. Code 2/5 Interleaved, on the other hand, will in the long term be replaced by Code 128 as the latter allows the encoding of numerical data in an even more compact form by means of the character set C.

Code EAN 128 is defined by the EN 799 standard. Full details about codes are available at the National EAN organisations and their local associations.

Why 2D-Codes

1988 - 1995: Development of the first stacked codes, such as Code 49, Code 16K, Codablock and PDF417.

The idea behind this kind of code is the connection between different codes related to each other. A checkdigit over the total set of codes guarantees the reliability of the data. 2D-Codes are based on the concept of the two-dimensional representation of information This means that the standard bar code could be defined as a 1D-code, as information is encoded only in the X-axis.

Stacked codes, on the other hand, include a second information level in the Y-axis. By condensing information in this way, i.e. stacking it, the area necessary for a 2D-Code can be relatively small. With respect to standard bar codes, the implementation of two-dimensional reading technology leads to a limited increase in costs, provided that the structure of standard bar codes remains unchanged. If this is not the case, special software drivers must be installed on the printing and reading devices.

1988 - 1995: Development of the first Matrix Codes, such as Data Matrix and MaxiCode.

At the same time, a series of codes were developed which can no longer be defined as bar codes, but as Matrix Codes. MaxiCode was specifically designed for omni-directional sortation of transport packages in a quick and reliable way. An error-correction algorithm guarantees the reliability of data. A quick image-processing system reads codes by means of a linear camera or a matrix camera whenever necessary.

Data Matrix, on the other hand, is particularly useful in applications requiring small spaces. Like MaxiCode, this code can be read omni-directionally. Data Matrix is very compact, reliable and can encode a great variety of characters and settings.

This is considered a major benefit in the pharmaceutical sector, as well as in different manufacturing sectors.

Examples of bar code applications

Manufacturing: On the shop-floor of industrial plants Datalogic devices identify objects being manufactured, capture information from the process and transmit it to the company IT system, to make real-time control of time and processes possible. Datalogic devices identify the single products in the isles, production lines and warehouses, guarantee automatic and immediate monitoring of the production process, and supply all the necessary information to maximise precision, quality and efficiency.

Transportation & Logistics: Datalogic products are used to control and guide the movements of goods and people. In warehouses and transit areas of goods, centres of gathering correspondence and airports, national carriers and big international couriers, airports and airline companies, post offices and providers of logistic services find Datalogic to be the ideal partner to guarantee total traceability of each movement.

Distribution & Retail: In supermarkets and shops Datalogic's readers enable consumers to pay without queuing at the cashier, enable the big chain stores to develop truly one-to-one promotions for their customers, and manufacturers of consumer goods to have a precise feedback on sales and the purchasing model of consumers.

OEM: OEMs require very reliable components that fit into their machines, minimising the integration effort and assuring the highest level of performance. Datalogic's capability to define, develop and deliver specialised and customised devices in a fast and reliable way is crucial for OEMs in increasingly competitive markets.

Bar Code Basics

Terminology - 1D-Code

Bar: The dark element in a bar code symbol.

Space: The light element between two bars in a bar code symbol.

Intercharacter gap: In a discrete code, the space between the last bar of a character and the first bar of the following character.

Element: A bar or space in a bar code symbol.

Module: The narrowest element in a bar code. Wide bars or spaces are expressed in multiples of modules.

X Dimension: The width of the narrowest element.

Quiet zone: Also called light margin or clear area. It is the blank area before and after the bar code. The quiet zone Q is necessary for setting the reading direction of the bar code symbol. The quiet zone must be at least 10 times the X dimension with anyway a minimum width of 2.5 mm. In scanner applications involving a large depth of field, the quiet zone must be wider: Q = 15 times the X dimension with a minimum width of 6.5 mm.

Bar Code Symbol: The bar code symbol consists of a bar code, two quiet zones and an interpretation line. The bar code includes encoded data, which consists of coloured bars and blank spaces. The quiet zone precedes and follows the bar code and helps to identify the object to decode. The interpretation line is positioned below the bar code and translates all of the encoded information into readable characters.

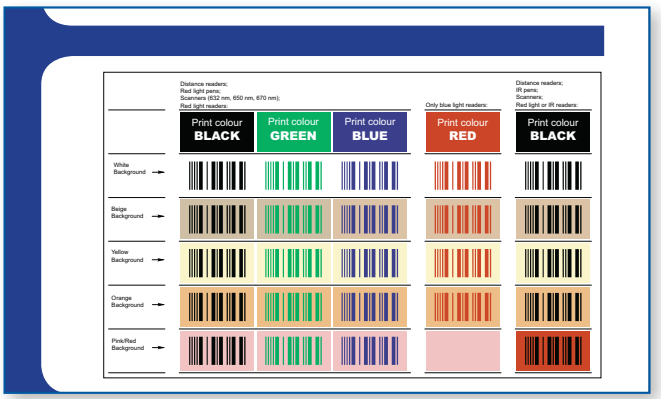
Overview of bar code types

As already mentioned, several bar code symbologies have been developed to meet different needs. This overview should help one to find the most suitable bar code, depending on the application, the printing method and the recognition philosophy. The code is in fact often required to respond to conflicting needs such as:

- Large print tolerance
- Wide decoding tolerance limits
- High-Density-Code
- Constant character width
- Self-checking capability
- The same number of bars for all characters

The better the print quality and therefore the higher the contrast, the easier the identification of the bar code.

The most common bar code symbologies are:



4022
2/5 interleaved

3757
2/5 5 Striche IATA

Code 128

137
2/5 5 industrial bar

EAN13

Code 93

Telepen

01
IBM

0140
Codabar

Plessey Code

PDF 417

RSS14
GS 1 DataBar

DATALOGIC
Code 39

DATAMATRIX

Code 2/5 5 Bars Industry

General: Numeric code consisting of the digits 0 to 9. The code comprises two wide and three narrow bars. Code Ratio n:narrow bar: wide barn n = 1:2 to 1:3. The space between characters does not contain information.

Advantages: The code only consists of bars, there is no information in the spaces. High print tolerance (± 15%). It can therefore be produced even with the simplest printing methods.

Disadvantages: Limited information density. Example: 4.2 mm per digit with the following minimum bar width X = 0.3 mm and code ratio n = 1:3.

Printable with: Offset, typographical and copperplate printing, flexography, numbering and printing, computer-controlled printing, phototypesetting.

Codabar

General: Numeric code containing 6 additional special characters in its set. It consists of the digits 0 to 9, and the following characters -, $, :, /, ., +. Each character is made up of 7 elements (4 bars and 3 spaces). To display the code, 2 or 3 wide elements and 4 or 5 narrow elements are used. The spaces between the characters do not contain information. Code Ratio n: narrow element: wide element n=1:2.25, max. n=1:3.

Advantages: Besides 0-9, it is possible to display 6 further special characters. The spaces between characters do not contain information.

Disadvantages: Low information density. Example: 5.5 mm per digit with minimum bar width X=0.3 mm and Code Ratio n=1:3.

Printable with: Offset, typographical and copperplate printing, flexography, numbering and printing, computer-controlled printing and phototypesetting.

Code 39

General: Alphanumeric code consisting of the digits 0 to 9, 26 letters, and 7 special characters. Each character contains 9 elements, 5 bars and 4 spaces. 3 elements are wide and 6 are narrow, except for the display of the special characters. The space between the characters does not contain information. Code Ratio n: narrow element: wide element n=1:2 to 1:3. Where the narrow element measures less than 0.5 mm, the ratio between the narrow and the wide element is as follows: narrow element : wide element n=1:2.25, max. n=1:3.

Advantages: Alphanumeric representation.

Disadvantages: Low information density. Example: 4.8 mm per digit with the following minimum bar width X=0.3 mm and Code Ratio n=1:3.Low information density (± 10%).

Printable with: Offset, typographical and copperplate printing, flexography, computer-controlledprinting and phototypesetting.

Code 128

General: Code 128 is able to encode the complete set of ASCII characters without using combinations of characters (see Code 39 and 93). However, this does not mean that Code 128 can directly represent the complete set of ASCII-characters. This is only possible by utilising 3 character subsets, A, B and C, which are used according to the problem to be solved. The different subsets can also be mixed. In order to encode the complete set of ASCII characters, the start characters A or B must be used in connection with the special characters of Code 128. Each character consists of 11 modules, divided into 3 bars and 3 spaces. Bars always comprise an even number of modules (even parity), while spaces containan odd number of modules. The stop character is an exception as it includes 13 modules, i.e. 11 modules and one 2-module boundary bar.

Advantages: Representation of the complete set of ASCII characters. High information density.

Disadvantages: Low print tolerance. The code uses four different bar or space widths. The completeset of ASCII characters cannot be represented with one character set.

Printable with: Offset, typographical, copperplate, thermaltransfer printing and phototypesetting.

EAN 128: Logistics code used in trade applications. Differently from Code 128, the start character consists of the combination of Start A, Start B or Start C with the character FNC1. (Forany further information, please address yourself to the National EAN organizations and their local associations).

EAN

General: Numeric code consisting of the digits 0 to 9. Each character includes 11 elements. All bars and spaces contain information. Only 8 or 13 characters can be represented.

Advantages: High information density in 10 different sizes.

Disadvantages: Very low tolerance.

Printable with: Offset, typographical, copperplate and laser printing, thermal printing starting from one set size only, phototypesetting.

Code Chart: Full details about EAN and EAN 128 are available at the National EAN organizations and their local associations.

Bar Code Basics

EAN128

General: All application identifiers and their data contents can be represented with the UCC/EAN 128 bar code. A subset of Code 128, EAN 128, is characterised by the use of a special character, i.e. the function character 1 (FNC 1)1), which directly follows the start character at the beginning of the bar code symbol. The use of this combination of characters is reserved to the International Article Numbering Organization, EAN, and to the American Uniform Code Council, UCC.

Three parameters have to be taken into consideration when defining the maximum length of an EAN 128 symbol: the number of encoded characters, the physical length of the code, which depends on the enlargement factor, the number of data characters encoded excluding auxiliary and symbol characters.

The max. length of any EAN 128 symbol must respect following limits:

- The physical length cannot exceed 165 mm including quiet zones.
- The maximum number of encoded data, including application identifiers, is 48, excluding auxiliary and symbol check characters. 1) If FNC1 characters are used as separator characters, they can be considered as data characters.

Including all auxiliary and symbol check characters, the EAN 128 symbol shouldn´t exceed 35 symbol characters. Otherwise, there is the risk that an inadequate enlargement factor must be chosen for major company applications.

Moreover, it has to be considered that in code set C a certain number of data characters can be encoded using a smaller number of symbols.

Limits of fixed- and variable-length data strings: application identifiers identify variable- or fixed-length data strings. When multiple application identifiers are concatenated with their data contents into a symbol, a FNC 1 character must follow each variable data string, unless it is the last string in the bar code symbol. Separator characters are not required with fixed-length data contents.

In order to transmit the length of predefined fixed-length strings after the reading has taken place, a table of indicators has been established. Some of the indicators listed in the table here below are already in use today as application identifiers (i.e. »00", »01") and have been included in most application identifiers (i.e. »31", 41").

The table shows the total length of data strings, which consist of the application identifiers and the data contents. In this way, however, no information is conveyed regarding the length of the application identifiers or the (numeric or alphanumeric) format of the data content.

Length indicators	Length of data strings
00	20
01	16
02	16
03	16
04	18
11	8
12	8
13	8
14	8
15	8
16	8
17	8
18	8
19	8
20	4
31	10
32	10
33	10
34	10
35	10
36	10
41	16

- All the strings not included in this table must be followed by an FNC 1 or a stop character.
- New data strings are not clearly separated by means of FNC 1 characters.

The table includes provisions for the future and is therefore firmly established. If further fixed-length data strings are standardised in the future, their application identifiers will be selected from this table. Thus, processing software can be developed independently of any future additional release of data strings. This table must always be included in the processing software, otherwise the division of the bar string into single elements cannot be guaranteed.

Data content: According to the application, the data content following an Application Identifier may consist of numeric or alphanumeric characters and may contain up to 30 characters in length.

The length of data fields in which data contents will be encoded may be either fixed or variable. A fixed-length data field must always contain its set number of characters (numbers and/or letters). If necessary a data field must be filled with leading zeros, in order to reach its assigned data length. For variable-length data fields, a maximum length has been defined. This maximum cannot be exceeded for any reason.

Example: 3100 Net Weight in kilos without decimals.
3102 Net Weight in kilos with two decimals.

Note: The measurement of variable measure items can only be indicated by means of one specific Application Identifier (30 and 3100 to 3169). Thus, by establishing a one-to-one relationship between the item EAN code and the measurement, the risk of confusion among different indications of measurements is avoided, i.e. for logistics purposes. The application identifiers 3300 to 3369, 340 and 37 identify measurements required for logistics purposes.

RSS / GS1 DataBar

General: The RSS family, now identified as GS1 DataBar, consists of three main symbols. RSS-14 encodes 14 digits of numerical data (GTIN) and indicator digit values are limited to 0 to 9. RSS Limited is a linear symbology which encodes the same RSS14 data (GTIN), with indicator digit values limited to 1 or 0. RSS Expanded is a variable length, linear symbology, encoded differently than RSS-14. It can hold up to 74 numeric or 41 alphabetic characters and encode 14 digits (GTIN), or more using all types of EAN/UCC Application Identifiers, as used for the EAN/UCC Code 128. Both RSS-14 and RSS-Expanded can be printed in two to eleven rows of 2 segments each, reducing the overall length of the linear code. Composite codes always have a linear (or stacked in the case of RSS) part, with a 2D component that is positioned just above the linear part and with a separator pattern between the two. There are three main symbols in the CS family. CC-A, based on a variant of MicroPDF417, encodes up to 5456 digits of alphanumeric data and can be combined with any EAN/UCC symbols, with the exception of ITF-14. CC-B, based on MicroPDF417, can encode up to 338 digits of alphanumeric data and can be combined with any of the EAN-UCC symbols, with the exception of ITF-14. CC-C, based on PDF417, must only be combined with UCC/EAN-128 and can encode up to 2361 digits of alphanumeric data.

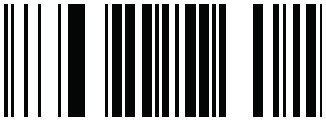
Advantages: The most compact symbologies available today which satisfy new requirements of theID market: the need of a bar code symbologyprinted on smaller items, of a greater amount of data on a symbol, of an omni-directional symbology. These bar codesprovide new ways of using the EAN/UCC system for bar coding items which previouslydid not carry a bar code, satisfying emergingtarget markets/ applications in Retail/Food industries and Healthcare.

Disadvantages: At the moment, CS symbologies can only be read by 2D bar code readers.

Printable with: Offset, typographical and copperplate printing, flexography, numbering and printing, computer-controlled printing, phototypesetting.

Principle: RSS14 usually has the following structure:

Example: RSS14



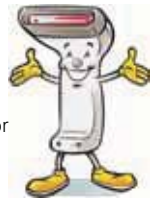
Code 49

General: Code 49 is a version of the stacked code based on its own code structure. Each symbol can consist of between 2 and 8 rows, each containing 70 modules, a start character (2 modules), 4 data words (4x16 modules) and a stop character (4 modules). During the reading process row numbers can be determined by representing each data word in strictly pre-defined combinations. Maximum capacity is 49 ASCII characters or 81 numeric characters.

Advantages: Compact Code. Flexibility in adapting the information to encode to a given area thanks to variable height and information density. All the reading devices on the market can be used. However, the decoder must be expanded, as Code 49 isbased on its own structure. The decoder must read the whole code before transmitting the contents of the code the central computer system.

Disadvantages: Rigid format. The stacked structure must be respected during the reading process.

Printable with: Any printing method suitable for UPC or for Code 39.



Codablock

General: CODABLOCK was developed as a stacked version of the standard bar codes Code 39 and Code 128 able to encode the information context when the label is not wide enough and therefore several shorter bar codes should be printed. Each row includes a row indicator, which shows the orientation of the reading and two check characters, which guarantee the accuracy of the whole message. There are three varieties to this code.

CODABLOCK A: Based on the structure of Code 39, it can encode 1 to 61 characters with up to 22 rows (totalling maximum 1,340 characters). The check digit over the whole message is calculated on Modulo 43.

CODABLOCK F: Based on the structure of Code 128, this code can contain 2 to 44 rows, with 4 to 62 characters per row (totalling maximum 2,725 characters).

CODABLOCK 256: This variety has the samestructure of CODABLOCK F, but has special start and stop characters. It can consist of 2 to 44 rows, each containing 4 to 62 characters (totalling maximum 2,725 characters). Each row contains error correction, so that minor damage can be repaired.

Advantages: Increased reliability of data of one single CODABLOCK label with respect to several separate labels to encode one message. Flexibility in adapting the information to encode to a given area thanks to variable height and information density. All the reading devices on the market can be used, as the CODABLOCK is based on already existing bar code symbologies. Re-assembling each line to reproduce the complete message in the right sequence can also be achieved by means of an overhead calculation system.

Disadvantages: The stacked structure must be respected during the reading process.

Printable with: Any printing method suitable for Code 39 or 128.

PDF 417

General: PDF 417 is a version of the stacked code based on its own structure. Characters areencoded in so-called »codewords«. Each codeword consists of 17 modules each containing 4 bars and 4 spaces. The code can contain up to 1,108 bytes and can use between 3 and 90 rows. Each row contains two row indicators, which show the position of the row on the symbol. At least two codewords are used as check characters, which guarantee the reliabilityof the whole message. Error correction can be carried out by means of further codewords (up to 512) and takes place indifferent steps.

Advantages: Very compact code. Flexibility in adapting information to a given area thanks to variable height, width and information density. All the reading devices on the market can be used. Only the decoder must be expanded, as PDF 417 is based on its own very complex structure. However, the decoder must read the whole code before transmitting the contents of the code to the central computer system.

Disadvantages: The stacked structure must be respected during the reading.

Printable with: Printing methods using the necessary driver software.

General: Data Matrix is a version of the Matrix Code and has two main subsets, ECC 000-140 and ECC 200. ECC 200 is the latest revision recommended for use. Data Matrix has the variable square size of a matrix. Symbols canrange from a size of 10x10 to 144x144, thus representing either 8x18 or 16x48 symbol elements in a squared area. Data Matrix can encode 2,334 ASCII characters (each consisting of 7 bits), 1,558 expanded ASCII characters (each consisting of 8 bits), or 3,116 digits in their largest size. A horizontal and a perpendicular border form a corner, which indicates the orientation of the reading. The opposite sides of the square present alternating light and dark square elements, used to indicate both position and size of the symbol. The information density amounts to 13 characters to 100 mm².

Advantages: Very compact code. It is very reliable, as it includes a very powerful error-correction algorithm, Reed Solomon. Contents can be reconstructed by means of a minimum amount of error-correction characters even if up to 25 percent of the whole code is damaged.

Disadvantages: Only readable with image-processing devices.

Printable with: All methods equipped with the necessary printer drivers.

Maxi Code

General: Maxi Code is a version of the Matrix Code. It has a fixed size of 25.4 mm by 25.4 mm (1 inch by 1 inch) and can represent 144 symbol characters in an area of 646 mm², maximum 93 ASCII characters or 138 digits. A finder pattern, or bull's eye, consisting of 3 concentric rings, is in the centre of the 2D Code and indicates the presence of a Maxi Code label. Around it 866 hexagons arrangedin 33 rows carry the information. Each row consists of a maximum of 30 hexagonal elements. 6 orientation hexagons each with 3 hexagonal elements are arranged around the finder pattern at a distance of 60 degrees to indicate location during omni-directional reading. Information density amounts to 13 characters to 100 mm².

Advantages: Very compact code. It is very reliable, as it includes a very powerful error-correction algorithm. Contents can be reconstructed even if up to 25 percent of the whole code is damaged. Omni-directionally readable also at high speeds.

Disadvantages: Rigid parameters. Only readable with image-processing devices.

Printable with: All printing methods equipped with the necessary printer drivers.AIM International Symbology Specification - Maxi Code.

Datalogic Product Overview

Handheld Scanner Retail

Product	Gryphon Desk	Gryphon I	Gryphon L	Gryphon BT 4400 2D	Touch light 65/90
Description	Page 18	Page 19	Page 20	Page 20	Page 21
Characteristics					
Sensor	CCD (3,648 pixels)	CCD (2,048 pixels)	Laser	Wide VGA camera	CCD (2,048 pixels)
Dimensions	179 x 81 x 98 mm	81 x 71 x 100 mm	81 x 71 x 100 mm	181x71x100 mm	164 x 77.5 x 63 mm-T65 175 x 100 x 80 mm-T90
Weight	210 g w/o cable	169g	169g	245g	160 g / 190 g
Case material	ABS + Polycarbonate	ABS + Polycarbonate	ABS + Polycarbonate	ABS + Polycarbonate	ABS
Performance					
Light Source	Visible red LED	Visible red LED	630 - 680 nm VLD	Visible red LED	Visible red LED
Max. Resolution	0.076 mm / 3 mils	0.076 mm	0.102 mm/4 mils	0.077mm / 3mils	0.10 mm/0.13 mm
Scan rate	270 scans/sec.	325 scans/sec.	100 scans/sec.	–	256 scans/sec.
Print contrast ratio	min. 15%	min. 15%	min. 25%	min. 25%	min. 15%
Reading field	var.	var.	n/a	var.	63 / 80 mm
Reading distance (mm)	max. 37 cm	3.5 - 30.0 cm	2.2 - 69 cm	max. 330mm	0-50 on EAN 13/100%
Readable Bar codes	2/5 family, Code 39,32, Cip 39), EAN/UPC, ISBN/ISSN, EAN 128, Code 128, ISBT 128, Code 93, Code 11, CODABAR, TELEPEN, PLESSEY, Code MSI, Code Delta IBM, RSS	Linear/linearer GS1/ Expanded Stacked; Stacked; Stacked Omnidirectional, Post	All Standard 1D, GS1 stacked	all standard 1D and 2D barcodes	2/5 family, Code 39, 32, CIP 39, Code 128, EAN128, EAN/UPC, ISBN/ISSN, CODABAR, Code 93, ISBT128, MSI, Plessey, Telepen, Delta IBM, Code 11, 49, RSS
Reading Indicators	LED, spot, beeper	LED, spot, buzzer	GreenSpot, LED, Beeper	Beeper, Green-Spot, LED	LED + adjust. beeper
Reading mode Graphic formats	Linear	Linear	Linear	n/a	Single or autodiscrimination code
Programming method					
Manual			Programming bar codes		
Automatic	S/W commands	S/W commands	n/a	n/a	S/W commands
Aladding	Win configuration	Win configuration	Win configuration	Windows configuration	Win configuration
Interfaces	USB,RS232, Wedge,Wand	RS232/IBM 46XX/USB	USB, KBW, RS232, IBM 46XX, WAND	RS232, IBM 46xx, USB, KBW, Wand	USB,RS232, Wedge,Pen
Partly optional	Puzzle Solver, data edit	n/a	various mounts/stands	n/a	EAS-Version
Electrical					
Power Supply/ Consumption	5 VDC ±5% 250 mA operating, 330 mA max. 12V mobile	4.75 - 5.25 VDC	5VDC +/- 10%	Li-Ion battery 2100mAh	5 VDC ± 5%, Directly (USB, Wedge, Pen) or via an ext. PSU (RS232) / 150 mA max.
Environment					
Operating Temp.	0° to +55 °C	0 - 50 °C	0 - 55°C	0° to +50 °C	0 to 55 °C
Storage Temp.	-20 to 70 °C	-20° – 70 °C	20 - 70°C	-20 to 70 °C	-20 to 70 °C
Humidity	90% non-condensing	90% non-condensing	5 - 90% non-condensing	0 - 95% non-condensing	90% non-condensing
Drop Resistance	1.8 m onto concrete	1.8 m onto concrete	1.8m onto concrete	1.8 m onto concrete	1.2 m onto concrete
Protection	IP30	IP42	IP52	IP52	IP30
Special Specification	Available in various versions and specifications	Mobile Version: 433 MHz or Bluetooth	–	Bluetooth range up to 30m	Pro version
Target groups	Retail, Distribution, Manufacturing, Healthcare, Public Sector	Retail, Banking Finance, Healthcare, Distribution	Retail, Banking Finance, Distribution	Retail, Distribution, Manufacturing, Healthcare	Retail

Now available as special Healthcare Version **see Page 19**

Heron	QuickScan L	QuickScan	QuickScan Mobile	QuickScan I
Page 21	Page 22	Page 22	Page 23	Page 23
CCD (2,048 pixels)	Laser	2,048 pix linear imager	CCD (2,048 pixels)	CCD (2,048 pixels)
153 x 152 x 68 mm	170 x 71 x 67 mm	n/a	171 x 90 x 68 mm	170 x 71 x 66 mm
160 g w/o cable	128 g	181.4 g	189 g	121.9 g
ABS + Polycarbonate	ABS + Polycarbonate	n/a	ABS + Polycarbonate	ABS + Polycarbonate
Visible red LED	650nm vis. red Diode	630 nm vis. red Diode	LED Array	Visible red LED
0.10 mm	0.10 mm	5 mils	0.10 mm	0.102 mm
256 scans/sec.	100 scans / sec.	450 scans/sec max	235 scans/sec.	270 scans/sec.
min. 15%	min. 30%	30% or greater	min. 20%	min. 15%
var.	n/a	16.5cm / 6.3	16.5 / 6.3cm	var.
210 on EAN 13/100%	0-230	n/a	30-210 on EAN 13/100%	20-650
2/5 family, Code 39,32,Cip 39), EAN/UPC, EAN128, Code 128,93, CODABAR, TELEPEN, PLESSEY, Code 49,MSI,Delta IBM, Code 11, RSS	Interleaved 2/5, Code 39, +ASCII-Satz, TriOptic, Discrete 2/5, UPC/EAN, UCC/EAN128, Code 128,93, Code 128 + ASCIISatz, CODABAR, Code MSI, Code 11, IATA, GS1 DataBar (RSS), Chinese 2 of 5	UPC A, E / EAN/JAN 8,13, Add-ons (sub 2 or P2, sub 5 or P5 & C128), RSS-14, Expanded, Stac, ISBN / Bookland EAN, Code 39 (with full ASCII), Pharma-code 39	2/5 Family, EAN/UPC, Code 128/ EAN 128, Code93, Codabar, TEL-EPLEN, PLESSEY, Code 49, Code MSI, Code Delta, IBM, Code 11, Code 16K, ISBN/ISSN,ISBT 128, Code 39 (plus Code 32, Cip 39), GS1DataBar (RSS)	Linear/linearer GS1/ Expanded Stacked; Stacked; Stacked Omnidirectional, Post
LED, spot, beeper	LED, buzzer		LED, spot, buzzer	LED, spot, buzzer
Linear	Linear	Linear	Linear	Linear
Programming bar codes	Programming bar codes	n/a	Programming bar codes	Programming bar codes
S/W commands	–	–	S/W-Commands	S/W-commands
Win configuration	–	–	Win configuration	Win configuration
USB	USB,RS232,Wedge,IBM	RS232,Wedge,IBM,USB	USB,RS232,Wedge,Wand	USB,RS232,Wedge,Wand
Version with pistol grip	Bluetooth	Bluetooth	–	–
5VDC ±5%; Max: 180 mA, operating: 155 mA, sleep mode: 120 uA, USB: 350 uA	5 VDC ±10% 100 mA @ 5VDC	+4.5 to 14VDC ±5% 300mA @ 5VDC 200mA @ 5VDC	5 VDC ± 5% Max. 4 W	5 VDC ±10% 100 mA @ 5VDC
0 °C to 55 °C	0° – 50°C	0° to 50°C	0 – 40°C	0° – 50°C
-20 °C to 70 °C	-20° – 40 °C	-40° to 70° C	-20 – 70°C	-40° – 70° C
90% non-condensing	95% non-condensing	95% non-condensing	90% non-condensing	95% non-condensing
1.8 m onto concrete	1.5 m onto concrete	1.5 m onto concrete	1.5 m onto concrete	1.5 m onto concrete
IP30	IP42	IP52	IP30	IP42
–	–	Bluetooth Version		–
Retail, Public Sector	Retail, Public Sector, Banking Finance, Healthcare	Retail	Retail, Banking Finance, Public Sector, Healthcare	Retail, Banking Finance, Healthcare, Public Sector

Datalogic Product Overview

Handheld Scanner Industry

Product	PD7100	PBT7100	PD8330	PD8500 2D
Description	Page 24	Page 24	Page 25	Page 25
Characteristics				
Sensor	CCD (2.048 pixels)	CCD (2.048 pixels)	Laser	1.280x1.024 pixels
Dimensions	203x76x114mm	239 x 117 x 48mm	var.	208x66x110 mm
Weight	280g	280g	D: 295g / M: 395g	295 g
Case material	ABS + Polycarbonate	ABS + Polycarbonate	ABS + Polycarbonate	ABS + Polycarbonate
Performance				
Light Source	LED Array 630 bis 670nm	LED Array 630 bis 670nm	630-680nm vis. red Diode	LED Array
Max. Resolution	0.076mm/3 mils	0.076mm/3 mils	SR: 0.076/AR: 0.33mm	1D: 0.05; PDF: 0.076; 2D: 0.10
Scan rate	390 scans/sec.	390 scans/sec.	35 ± 5 scans/sec.	35 ± 5 scans/sec.
Print contrast ratio	min. 15%	min. 15%	min. 15%	min. 15%
Reading field	n/a	n/a	n/a	87x69 mm – 197x160 mm
Reading distance (mm)	0-600	0-600	25-10.000 (dep. on type)	0-250
Readable Bar codes	Linear/linearer GS1/ Expanded Stacked; Stacked; Stacked Omnidirectional, Post	Linear/linearer GS1/ Expanded Stacked; Stacked; Stacked Omnidirectional, Post	2/5 Family, Code 39 (plus Code 32, Cip 39), EAN/UPC, EAN 128, Code 128, Code 93, CODABAR, Code 49, Code MSI, Code 11, Code 16K, ISBN/ISSN, ISBT 128, GS1DataBar (RSS)	1D: Interleaved 2/5, Code39,32,128,93, EAN 128,UPC/EAN/JAN, CODABAR, GS1 DataBar (RSS), 2D: PDF417, Data Matrix (ECC200), QR, Composite, Micro/MacroPDF, MaxiCode, Aztec, div. Postal Codes
Reading Indicators	LED, Spot, Buzzer	LED, Spot, Buzzer	Laser, 3GL, Buzzer	3GL, Buzzer
Reading mode Graphic Formats	n/a	n/a	n/a	.jpg, .tif
Programming method				
Manual	Programming bar codes	Programming bar codes	Programming bar codes	Programming bar codes
Automatic	S/W commands	S/W commands	S/W commands	S/W commands
Aladdin	Windows	Windows	Windows	Windows
Interfaces	USB,RS232,Wedge,Wand	USB,RS232,Wedge,Wand	USB,RS232,Wedge,Wand	USB,RS232,Wedge,Wand
Partly optional	–	Bluetooth	–	–
Electrical				
Power Supply/ Consumption	4-14 VDC 285 mA @ 5 V 135 mA @ 5 V	7-14 VDC	4-30 VDC 420 mA @ 4V; 310 mA @ 5 V; 62 mA @ 30 V	5-30 VDC 550 mA @ 4V; 95 mA @a 30 V
Environment				
Operating Temp.	-30 – 50° C	-20 – 50° C	-30 – 50° C	-10 – 55° C
Storage Temp.	-40 – 70° C	-20 – 70° C	-30 – 70° C	-20 – 70° C
Humidity	95% nNC	95% nNC	90% nNC	95% nNC
Drop Resistance	2.0 m onto concrete	2.0 m onto concrete	2.0 m onto concrete	2.0 m onto concrete
Protection	IP65	IP65	IP65 without Disp./IP64	IP65
Special Specification	Targeting device available	Targeting device available	Mobile Version and Display/Keypad Version	High density, Wide Angle
Target groups	Retail, Distribution. Manufacturing, Public Sector	Retail, Distribution, Manufacturing, Public Sector	Retail, Industrie, Distribution, Manufacturing, Public Sector	Banking Finance, Healthcare, Manufacturing, Distribution, Public Sector

Presentation Scanner

Product	Magellan 1100i	Magellan 1400i	Magellan 2200	Magellan 3200VSI
Description	Page 27	Page 27	Page 30	Page 30
Dimensions (HWD)	8.4 x 7.1 x 9.4 cm	18.0 x 8.1 x 9.7 cm	15 x 15 x 9 cm	15.2 x 15.2 x 8.2 cm
Temperature	0°C – 40°C / -40°C – 70°C	0°C – 40°C / -40°C – 70°C	10°C – 40°C / -40°C – 70°C	0°C – 40°C / -40°C – 70°C
Scan lines	Imager	Imager	18	Imager
Scanrotation	–	–	6,000 RPM	–
Reading distance	max. 17.7cm	max. 22.9cm	15.2 cm	14 cm
Readable Bar codes	all standard 1D bar codes, 2D optional	all standard 1D and 2D codes	UPC, RSS-14, EAN 8, 13, JAN 8, 13 EAN/JAN, UCC/EAN128, Code 39,128, 93, Interleaved 2 of 5 standard 2 of 5, Italian Pharma-code, Codabar/NW7, MSI/Plessey	all standard 1D bar codes, 2D optional
Power Supply	4.5 - 14.0 VDC	5.0 - 14.0VDC	90-265 VAC, 47-63 Hz 4.0 Watt (operation)	90-265 VAC, 47-63 Hz, 8.75 Watt (operation)
Interfaces	USB, KBW, RS232, IBM 46xx	USB, KBW, RS232, IBM 46xx, RS485	RS232, IBM 46XX, IBM USB, USB, keyboard wedge	USB, KBW, RS232, IBM 46xx
Options	EAS	EAS	Powered RS232 Aux-Port	EAS
Certifications	IEC 60825 Class 1 LED	IEC 60825 Class 1 LED	EN 55022-B (EU); elektric: EN60 950 (TÜV EU)	
Laser Safety	-	-	CDRH class IIa (USA/Kanada), EN 60825-1 Klasse 1 (EU), IEC 60825-1 class 1 (nternational)	
Target groups	Retail, Point-of-Sale	Retail, Point-of-Sale	Retail, Point-of-Sale, discounter	

Stationary Scanner

Product	Magellan 8300/8400	Magellan 8500	Magellan 2300	Magellan 3300HSi
Description	Page 28	Page 29	Page 30	Page 30
Dimensions (HWD)	13.0 x 35.6 x 10.2 cm	18 x 30 x 13 cm	15 x 15 x 10 cm	15.2 x 15.2 x 8.7cm
Temperature	Operating: 10°C – 40°C, storage: -40°C – 70°C			0°C – 40°C / -40°C – 70°C
Scan lines	52	64	20	Imager
Scanrotation	4.500 RPM	6,000 RPM		–
Reading distance	15.2 cm		15.2 cm	10.2cm
Readable Bar codes	Linear/linearer GS1/ Expanded Stacked; Stacked; Stacked Omnidirectional		UPC, RSS-14, expanded/stacked, EAN 8, 13, JAN 8, 13 EAN/JAN, UCC/ EAN128, Code 39,128, 93, Interleaved 2 of 5 std. 2 of 5, Italian Pharmacode, Codabar/NW7, MSI/Plessey	all standard 1D bar codes, 2D optional
Power Supply	100-250 VAC, 50-60 Hz 7 Watt (operation), 8 Watt (max.), 4 Watt (standby)	100-250 VAC, 50-60 Hz 17 Watt (operation), 9 Watt (max.), 4 Watt (standby)	90-265 VAC, 47-63 Hz 4.0 Watt (operation), 9.6 Watt (maximum), 2.5 Watt (standby)	90-265 VAC, 47-63 Hz, 8.75 Watt (operation)
Interfaces	IBM 46xx, KBW, USB, EAS, RS232		RS232, IBM 46XX, IBM USB, USB, keyboard wedge	USB, KBW, RS232, IBM 46xx
Options	Scale		Powered RS232 Aux-Port	EAS
Certifications	EN 55022-B (EU); elektric: EN60 950 (TÜV EU)			EN 60825-1 Class 1 LED; IEC 60825-1 Class 1 LED Product
Laser Safety	CDRH class IIa (USA/Kanada), EN 60825-1 Klasse 1 (EU), IEC 60825-1 class 1 (nternational)			–
Target groups	Retail, Point-of-Sale, discounter			Retail, Point-of-Sale

Datalogic Product Overview

Mobile Data Collection

Product	Memor	Skorpio/Skorpio-Gun	Kyman	Formula 734-E
Description	Page 33	Page 34	Page 35	Page 38
Characteristics				
Dimensions	152x55x40 mm (max.)	196x77x33 mm	240x92x55 mm	Batch: 165x56x32 mm
Weight	230 g (incl. battery)	310-360 g (incl. battery)	540-570 g (incl.battery)	Batch: 184 g/ RF: 215 g
Display	64K colour display, 240 x 320 pixel, 5.6cm (2.2") diagonal, backlight, touch screen	64K colour display, 240 x 320 pixels, 7.1cm (2.8 Zoll) diagonal, backlight, touch screen	64K colour display, 240 x 320 pixels, 9.7cm (3.8 Zoll) diagonal, backlight, touch screen	Graphic high-contrast LCD with backlight 4x16 characters
Keyboard	23 rubber keys,5-position joystick, backlit keyboard	38 rubber keys	53 or 36 rubber keys with backlight	Alphanumeric with 25 silicon rubber keys
Operating Temp.	0°C to +50°C	-10 °C to +50 °C	-20°C – +50°C	0 to 50 °C
Storage Temp.	-10°C to +65°C	-20 °C to +70 °C	-20°C – +70°C	-20 °C to 70 °C
Drop Resistance	1.2 m onto concrete	1.5m onto concrete	1.5m onto concrete	sev. drops onto concrete
Industrial Protection	IP54	IP64	IP64	–
Performance				
Operating System	Windows CE 5.0, Mobile 6.1	Windows CE 5.0	Windows Mobile 6.0/CE 5.0	Datalogic proprietary
Processor	IntelXScale 624 MHz	IntelXScale 312/520 MHz	IntelXScale 400 MHz	8 bit CMOS
RAM / Flash	128 MB / 256 MB	128 MB/128 MB	64 MB/128 MB	1024/512KB
Expansion-Slots	SD	Mini SD- and CF slots	Mini SD- and CF-Slots	–
Interfaces	RS232, USB 1.1	RS232, USB 1.1	RS232, USB 1.1	–
Data collection				
Local Area Network	Wi-Fi: IEEE 802.11b/g (Option) int. antenna; Frequency 2.4-2.5 GHz	Wi-Fi: IEEE 802.11b/g (option) int. antenna. Frequency 2.4-2.5 GHz	Wi-Fi: IEEE 802.11b/g (Option) int. antenna; Frequency 2.4-2.5 GHz	Infrared, RS232 or RS485
Wide Area Network	GSM/GPRS/Edge	–	–	Radio Frequency: 433.92 MHz, <10 mW, over 50 m
Personal Area Network	Bluetooth antenna: internal	Bluetooth antenna: internal	Bluetooth antenna: internal	Up to 19,200 bauds, Euro-pean ETSI standard EN
Power Management				
Power Supply	Removable battery pack with rechargeable Li-Ion batteries; 3,7 V 1100/2200 mAh (3,6/7,2 Watt)	Removable battery pack with rechargeable Li-Ion batteries; 3.7 V 2,100 mAh (7.8 Watt-hours)	Removable battery pack with rechargeable Li-Ion batteries; 7.4 V 2200 mAh (16.3 Watt)	Batch: 250 mAh NiCd rechargeable batteries RF: 650 mAh NiMH re-chargeable batteries
Laser Characteristics				
Scanning rate	104 ± 12 scans/sec.	104 ± 12 scans/sec	35 ± 5 scans/sec.	35 ± 5 scans/sec
Depth of Field	5 to 90 cm	5 to 90 cm	3 to 70/15 to 380 cm (XLR)	3 to 70 cm
Bar Codes	EAN/UPC, Code 39, 2/5 Codes, Plessey, Codabar, Code 128, EAN128, MSI, Code 93, Code 11	EAN/UPC, Code 39, 2/5 Codes, Plessey, Codabar, Code 128, EAN128, MSI, Code 93, Code 11	EAN/UPC, Code 39, 2/5 Codes, Plessey, Codabar, Code 128, EAN128, MSI, Code 93, Code 11	EAN 8, EAN 13, UPC/A-E, 2/5 family, Code 128, Code 93, Code 2/7, Code 3/5, 3/9 family, MSI, DELTA A IBM
Laser Classification	VLD - Klasse II EN	VLD - Class II EN	VLD - Class II EN	VLD - Class II
Special Characteristics	Klasse I LED Product Optional available with 2D imager	Pistol Grip	–	–
Target groups	Retail In-Store, events	Mobility, field service, nursing service, inventory	Logistics	Inventory, data collection

NEW!

	elf	Falcon X3
	Page 36	Page 36
	157 x 81 x 42 mm	225x88x55mm
	415 - 440g	626 - 699g
	64K colour display, 640x480 pixel, backlight, touch screen	64K colour display, 640x480 pixel, backlight, touch screen
	27/46 keys numeric/qwerty	29/52 key numeric/alpha-numeric
	-10° to +50°C	-10° to 50 °C
	-20 ° to +70 °C	-40° to 70 °C
	1,5 m on concrete	1,8m on concrete
	IP64	IP64
	Windows Mobile 6.5	Windows Mobile 6.5/CE 6.0
	Xscale PXA310@624MHz	Xscale PXA310@624MHz
	256/256MB	256/256MB
	Micro SD with SDHC	Micro SD with SDHC
	Micro USB 2.0	Micro USB 2.0
	Summit IEEE 802.11 a/b/g	Summit IEEE 802.11 a/b/g
	UMTS, HSDPA, GPRS, EDGE	–
	Bluetooth Class 2 w. DER	Bluetooth Class 2 w. DER
	Removable battery pack with rechargeable Li-ion batteries; 3.7 V 3000/5000 mAh (11.10/18.50 Watt hours)	Removable battery pack with rechargeable Li-ion batteries; 3.7 V 5000 mAh (18.5 Watt hours)
	140 scans / 60 Frames/sec	40 scans / 60 frames/sec.
	5 to 64 cm	8 to 380 cm
	UPC, EAN, Int. 2/5, Codabar, Code 39/93/128, MSI, PDF417, Micro PDF, DataMatrix, QR, GS1 Databar, Aztec, Maxicode, POSTNETKIX Code, RM, RM-4SCC, USPS 4CB, UPU FICS,	PDF417, Micro PDF, Datamatrix, QR Code, Micro QR, Maxicode, Aztec, Postnet, KIX Code, RM, Intelligent Mail and UPU FICS, GS1 Databar, EAN/UPC, Code 39/93/128, Int. 2/5, Codabar, EAN 128, MSI, ISBT 128
	VLD - Class 2	VLD - Class 2
	GPS, RF-ID, 3MP Cam., Pistol Grip	3MP Cam, Pistol Grip
	Retail In-Store, events	Stock, logistics

Mobile Terminals

Product	R-Series
Description	Page 41
Characteristics	
Dimensions	17.8cm (7"): 229 x 158 x 85 mm 25.4cm (10"): 280 x 226 x 86 mm 30.5cm (12"): 319 x 261 x 101 mm
Weight	17.8cm (7"): 2.5 Kg 25.4cm (10"): 4.0 Kg 30.5cm (12"): 4.7 Kg
Display	17.8cm (7")-LCD touch screen, 480x234Pix. 25.4cm (10")-LCD touch screen, 800x600Pix. 30.5cm (12")-LCD touch screen, 800x600Pix. all versions: backlight, touch screen
Keyboard	17.8cm (7"): 17 keys 25.4cm (10")/30.5cm (12"): 25 keys
Operating Temp.	0° to +50°C -30° to +50°C opt. with heater (not 17.8cm (7"))
Storage Temp.	17.8cm (7"): -35° to +65°C 25.4cm (10")/30.5cm (12"): -20° to +60°C
Schock / Vibration	Class 5M3
Industrial Protection	IP65, IP66 and IP67
Performance	
Operating System	Microsoft Windows CE 5.0
Processor	Marvell XScale PXA270 @ 520 MHz
RAM / Flash	128 MB/128 MB
Expansion-Slots	1 x 16bit Typ I/II PCMCIA Slot
Interfaces	2 x RS232, 5 VDC on COM1 (Pin 9), 2 x USB 2.0, 2 Host
Data collection	
Local Area Network	IEEE 802.11b/g Frequenz 2.4 – 2.5 GHz
Power Management	
Power Supply	17.8cm (7"): 224/48 VDC, 36 W 25.4cm (10")/30.5cm (12"): 24/48 VDC, 60 W and 100 W
Option	External ABCD, QWERTY and touch screen keyboard; can be combined with various hand scanners; integrated heater
Target groups	Logistics, inventory, rough environments, production

Datalogic Gryphon

- **One of the best-selling POS scanners – Datalogic's most successful scanner series**
- **Unequalled top performance for all applications**
- **Available for 1D and 2D bar codes**
- **Optional wireless function: up to 30 m operating range**
- **Large reading distance for convenient scans**
- **2D version: omni-directional – scans bar codes from any position**
- **All interfaces in one device: USB, RS232 and keyboard wedge**

Datalogic has developed the Gryphon scanner series in order to offer high scanning performance combined with ergonomic design and unrivalled durability. These outstanding characteristics and various application possibilities always make the Gryphon series scanners the right solution for both retail and industry. The Gryphon scanners not only easily read all standard bar codes, but also low resolution or damaged bar codes.

These high-performance scanners by Datalogic come in four different versions in order to be ready for almost any possible application in retail, warehouses, and logistics. Of course, the devices are also available for both 1D and 2D bar codes. You can order the Gryphon either as wired or wireless version with up to 30 metres operating range.

Its excellent optics allows scanning of all standard bar codes at a maximum distance of 43 cm (long-range version) with an enormous depth of field. Unlike conventional scanners with simple linear CCD components, this 2D scanner scans with a high-resolution CMOS camera. Its resolution of 640 x 480 pixels not only helps users scan bar codes, but is also good for special camera applications like signature or ID card scans. With such high resolution and special decoder software, even badly printed, dirty or torn bar codes are scanned without delay.

With omni-directional scanning, the ergonomics and speed are further increased with the 2D version when compared to normal hand-held scanners. All bar codes are read from a great distance at any angle – complicated scanner alignments can be omitted. A unique five-spot laser targeting system allows immediate intuitive targeting of the bar codes, even with multiple codes on a single label.

The Datalogic patented Green Spot makes instant read acknowledgment possible: instead of an acoustic signal, users can choose to be alerted by a clearly visible green spot on the bar code itself. Naturally, this technology is especially useful in particularly dark or noisy environments.

Very useful is the multi-interface that is integrated in all Gryphon versions: serial, USB, keyboard wedge and light pen interfaces are all integrated into a single scanner. All you need to do is order the correct cable for your system.

Using the wireless version Gryphon M is even easier. The Gryphon M130 for one dimensional bar codes supports the Datalogic Star System, which is praised as the most reliable RF system on the market. It scans in all relevant places possible anytime: the scanner immediately submits bar code data to the base station at an operating range of 30 metres. The multipoint system allows further use of up to 16 scanners at the same time without interference, even though the same frequency is used. The 433 MHz frequency is known to be stable and is licence-free. If the scanner leaves the operating radius, the scanner gives an acoustic warning signal instead of the Green Spot read confirm and stops submitting data.

For extended operating time, a powerful rechargeable battery is integrated into the grip of the portable Gryphon M version. It is not necessary to remove this battery from the device – simply put it onto the base station to recharge it automatically. An overview of additional batteries and chargers or other accessories for all Datalogic scanners can be found on page 31.

The high quality of design and workmanship of the Gryphon series does not only show excellent physical characteristics (e.g. operating temperature: 0-50° C) – an unconditional five-year Datalogic warranty is provided for all wired Gryphon scanners. The sturdy housing offers an effective rubber guard on all sides that help the device withstand even repeated drops onto concrete.

No matter if used in workshops, management, POS, production or small warehouses: if you offer customers Gryphon scanners they will get completely professional devices with unequalled scanning performance, operational comfort and workmanship.

Specifications	Item number
• Gryphon Desk, PS/2, RS232 and USB, light grey	dlgrd130w
• Gryphon Desk 2D, PS/2, RS232 and USB, dark grey	dlgrd432
• Gryphon Mobile 130, PS/2, RS232 and USB, light grey	dlgrm130
• Gryphon Mobile 230, 2D, PS/2/RS232/USB, light grey	dlgrm230
• More standard models on request	
• **To be ordered in any case:**	
• Required connection cables	see page 31
• Cradle for Gryphon Mobile	see page 31

Datalogic Gryphon I

- **Linear imager for commerce, offices, hospitals**
- **Reads all 1D and GS1 data bar codes with high resolution of up to 3 mils**
- **Top read rate (325 decodes/sec.)**
- **Wide scan angle (42°) for large codes**
- **All interface types in one device: USB, RS232 and keyboard wedge; EAS deactivation optional**

The new wired Gryphon I Linear Imager offers sophisticated scanning and decoding performance for multiple areas of application. It is specifically designed for use in commerce and offices, hospitals, pharmacies, light industry, warehouse logistics and production facilities.

Its wide scan angle of 42° enables you to read very large codes. Its improved decoding performance (325 decodes per second) increases output, accelerating reading performance of illegible or damaged codes. These features combined with high resolution of up to 3 mils, make the Gryphon I your extremely powerful solution for data collection. It is naturally equipped with the «Green Spot», patented by Datalogic, which is a positive reading confirmation directly on the code. The modern housing of the Gryphon I, its reduced weight and smaller size combined with conformity to the IP42 standard make this system a reliable, ergonomic solution, which can be operated comfortably and has highly developed scanning performance.

Specifications	Item number
• Gryphon I, KBW, RS232, USB, light grey	dlgri
• Gryphon I, KBW, RS232, USB, dark grey	dlgrisw
• More interfaces and Kits on demand	

Datalogic Gryphon 4100-HC

- **Universal handheld linear imager, mobile or corded options**
- **Desinfectant-ready housing – ideal for healthcare and food industries**
- **Quick capture of 1D and GS1 DataBar codes with its high-speed scan engine**
- **Multi-interface – all customary connections in one device**

The Gryphon 4100-HC linear imager is the Gryphon model specially engineered for healthcare and other sensitive surroundings, such as the food processing or chemical industries. Its disinfectant-ready housing has anti-microbial SANITIZED additives that allow it to be cleaned even with harsh cleaning agents.

This series of scanners offers all advantages and specifications of other Gryphon models. Extremely fast 1D and GS1 DataBar code capture, even from a distance, is possible thanks to its powerful scan engine. Ergonomic features, such as the Green Spot and optional 3-key pad further broaden the scope of possible applications. The robust, professional devices (IP52) come in a variety of configurations: either cable-bound or wireless. For the latter you may choose between the 433 MHz radio band and the powerful Bluetooth 2.0 technology. Using the multi-interface, naturally, you have all customary interfaces available in one device. All this makes connecting the device to existing systems an easy task.

Specifications	Item number
• Gryphon I GD4130-HC, multi-IF, white	dlgr4130hc

Datalogic Gryphon I GM4100

- **Wireless linear imager for retail and light industry**
- **Up to 30 m operating range using wireless transmission (433 MHz)**
- **Fast scanning at 325 scans/sec.**
- **Scanning memory for up to 1,200 codes when used outside of operating range**

The new linear imager Gryphon I GM4100 extends Datalogic's premium line with a high-performance wireless version. This robust handheld scanner is especially suited for applications in retail and light industry, as it offers unlimited mobility and guarantees efficient and productive bar code scanning.
Equipped with the same scanning specifications as the wired Gryphon I, the M version transmits scanned data at 433 MHz. The integrated memory saves up to 1,200 codes, even when used out of communication range. In addition to simple point-to-point applications, the GM4100 is also capable of complex network operations.

The patented 2-position stand is a freehand station and charger in one. Using its integrated lithium-ion battery, your customer scans up to 50,000 codes per charge. In order to increase mobile scanning efficiency even further, an optional version with display and a keypad with three keys is available. The user can use this for active host communication.

Specifications	Item number
• Gryphon I GM4100, KBW, RS232, USB, light grey	dlgri41
• Gryphon I GM4100, KBW, RS232, USB, dark grey	dlgri41w
• More interfaces and Kits on demand	
• **To be ordered in any case:**	
• Cradle for Gryphon I Mobile	see page 31

Information

Special housings for healthcare environments

For healthcare, pharmaceutical and laboratory environments, or even for kitchens in the hospitality business, Datalogic offers all scanners of the Gryphon series in a special housing ideally suited for quick and effective disinfecting. The plastic housing components easily withstand use of harsh cleaning agents and leave microorganisms with no chance at all; in particular, bacteria and viruses are effectively eliminated.

Using special devices enables a better response to demands for hygiene in critical environments. The devices' special protection not only guarantees reliable operation for many years, it also provides additional safety for users and patients alike.

Datalogic Gryphon I GBT4100

- **Linear imager for commerce, office, hospitals**
- **Mobile use through Bluetooth technology**
- **Reads all 1D and GS1 DataBar codes with high resolution (up to 3 mils)**
- **Top scanning rate at 325 decodings/sec.**
- **All connection types in one device: USB, RS232 and keyboard wedge**

For flexible operating conditions in commerce and offices, hospitals, chemists', light industry, warehouse logistics and production facilities, we offer the professional performance of the Gryphon series, also as a portable version with Bluetooth technology (class 2). The scanner communicates with its cradle at a distance of up to 30 metres using the point-to-point mode. Optionally, in point-to-multipoint mode, it is able to connect with up to seven Bluetooth devices and any compatible Bluetooth access point, while the integrated batch mode allows mobile data collection of up to 1,200 codes. These are automatically transmitted as soon as the scanner comes within the range of the base station again.

A rate of 325 scans per second not only increases the throughput, but also speeds up scanning of difficult to read or damaged codes. Its high resolution of up to 3 mils as well as a reading range of over one metre distance are further characteristics that make the Gryphon BT extremely powerful. The patented »Green Spot« increases ergonomics by notifying the user visually when a code is successfully scanned.

Specifications	Item number
• Gryphon BT, KBW, white	dlgrbtk
• Gryphon BT, KBW, black	dlgrbtusw

Datalogic Gryphon I GBT4400

- **Mobile 2D imager for highest demands in retail and light industry**
- **High-speed scan engine, providing quick capture of 1D, 2D and stacked codes, as well as pictures**
- **Ideal for ticket-shop applications – able to read from monitors and displays**
- **Bluetooth data transmission: great operation range up to 30 m**

With the Gryphon I GBT4400 2D imager, Datalogic provides a multi-use area imager that meets the scanning requirements of a large bandwidth of applications, such as retail, the processing industry, data processing, access control, entertainment, healthcare and transportation. Thanks to its strong decoding ability and processor power, it omnidirectionally reads 1D, 2D and stacked codes, capturing images and documents without loss of speed; and, if needed, it scans from displays and monitor screens.
Using Bluetooth 2.0 radio technology, its operation range reaches 30 m around its base station (not included in standard delivery) and offers users impressive flexibility with real-time data transfer. Outside this range area, the scanner switches automatically to batch mode and can store up to 12,000 codes, which are transferred by simply pressing a button when connection is re-established with the access point. Professional qualities, such as the Green Spot read confirmation, 4-dot aiming light and innovative Motionix motion sensor, which enables automatic switching between handheld and presentation modes, ensure dynamic ergonomics and intuitive handling.

Specifications	Item number
• Gryphon GBT4400, 2D, multi-IF, white	dlgr4400
• Gryphon GBT4400, 2D, multi-IF, black	dlgr4400sw

Datalogic Gryphon L GD4300

- **Professional bar code laser pistol for commerce, office and light industry**
- **Reads all linear and GS1 DataBar codes**
- **Up to 65 cm reading range at 100 scans/sec.**
- **High performance and ergonomics: smallest and lightest scanner in its class**
- **All connection types in one device: USB, RS232 and keyboard wedge**

With the Gryphon Laser, Datalogic offers the ideal solution for retail, office automation and light industrial applications, in which short to very large scanning distance requirements are met (max. 65 cm; Code 39 @ 20 mil). The laser scanner also easily reads especially small codes of 4 mils with a scanning angle of up to 47°.

As one of the lightest and smallest laser scanners in its class, the laser pistol meets the familiar high performance standards of the Gryphon family with flying colours: all 1D and GS1 DataBar codes are scanned at high speed (100 scans per second) and ergonomics – the scanner confirms a successful scan with the patented »Green Spot«. The laser withstands drops of up to 1.8 m without damage, while the manufacturer's warranty of 5 years along with the IP54 protection provides high reliability. The integrated multi-interface ensures simple connection via RS232, USB and keyboard wedge. IBM and USB POS interfaces are also available and enormously expand the range of applications.

Specifications	Item number
• Gryphon laser, KBW, white	dlgrlk
• Gryphon laser, USB, white	dlgrlu

Datalogic Note Tester

- **Stand for Gryphon with clever additional functions**
- **Integrated counterfeit note detector for bank notes and identity cards**
- **UV technology for secure protection against counterfeit money**
- **High cost savings and space-savings due to unneeded additional peripheral devices**

Each year millions in counterfeit money are taken out of circulation, which also avoids damage these could cause to commerce and the respective companies. Counterfeit money testers are used in numerous formats and with diverse technologies in order to counter these problems. Although indispensable, they are often very expensive and require significant space.

Avoid additional costs for peripheral devices and meet space needs efficiently by using Gryphon cradles with integrated counterfeit money detector. These optional devices guarantee not only high performance when working with the scanner, but also prevent counterfeit money from coming into circulation from the outset. Whether checking bank notes, credentials, or ID cards, the luminous LEDS instantly present every relevant UV characteristic. Although counterfeiters are also continuously using better methods, even beginners can use tester to easily and quickly identify counterfeit money.

Specifications	Item number
• Counterfeit Note Detector	dlgruv

Datalogic Touch

- **Professional bar code scanner with excellent performance and ergonomics (256 scans per second)**
- **Versions with 65 and 90 mm scanning range available**
- **Two interface versions: keyboard wedge and RS232 or USB, or Pro version with multi-interface**
- **Integrated Puzzle Solver technology – automatic combination of multiple scans**

The Datalogic Touch 65/90 CCD contact readers are perfect for cost-effective solutions that require best scanning capabilities and high reliability. The Touch 65/90 is a complete all-in-one solution for retail, management, warehouses or workshops. Tailored to the explicit requirements of your customers, they are available in two versions (light and Pro):

The 65/90 light scanner accurately reads all established bar codes with a high-resolution CCD scan engine. Its extremely high scan rate of 256 scans per second allows for outstanding scans, even with badly printed or damaged bar codes. Although equipped with a sturdy, scratch-resistant ABS plastic housing, the Touch series scanners weigh under 200 g and provide the usual high ergonomic quality of Datalogic devices. The user is notified of a successful scan with either an LED indicator or an adjustable beeper. Integrated data formatting and editing functions allow the user to adapt all collected data to any format required by the used application.

The Touch-Light series has two interface configurations: one version with dual-interface KBW and RS232, and one version with USB-interface. Please remember to also order the connection cables required for your customer's system. The correct interface is simply activated by replacing the cable and through easy configuration of the interface type.

Another important feature of the Touch series is the patented Puzzle Solver technology by Datalogic. In this process, decoding is not simply completed after a scan, but rather fragments from several scans are connected together to form a complete whole before being transferred to the host. This feature significantly increases the number of positive reads and speeds up data collection, especially in retail and logistics.

Another variant of the touch series is the CCD scanner Touch-Pro. These devices offer the same high performance of the Light series, but feature a multiple interface. This means your customers not only have a keyboard interface and RS232 available, but at the same time a USB. Merely by changing the connection cable you can attain previously unknown flexibility with your scanner. The Pro series is also equipped with integrated flash memory in order to install specific firmware for individual customer configurations.

Specifications	Item number
• Touch65 light, PS/2 and RS232, dark grey	dlt65lk
• Touch65 light, USB, dark grey	dlt65lu
• Touch90 light, PS/2 and RS232, dark grey	dlt90lk
• Touch90 light, USB, dark grey	dlt90lu
• Touch90 Pro, PS/2, RS232 and USB, dark grey	dlt90pro
• To be ordered in any case:	
• Required connection cables	see page 31

Datalogic Heron

- **Professional bar code scanner with CCD technology**
- **High performance and ergonomics**
- **Reads all commercial 1D and RSS bar codes**
- **All interfaces in one device: USB, RS232, and keyboard wedge**
- **Patented »Green-Spot« indication – scanning made easy**
- **With scanner stand: transforms a hand-held scanner into a professional presentation scanner**

The Datalogic Heron is an extremely powerful hand-held bar code scanner at a favourable price. An innovative design makes it an ideal choice for all commercial applications in retail and logistics. Naturally, easy operation and high ergonomics are needed as much in retail as in other commercial or office applications. Both Heron versions have shown excellent characteristics in tests and withstand constant operational stress. The Heron models are based on the concept of an instinctive read distance of 0-20 cm from the bar code, which offers best results. The patented »Green-Spot« technology offers easy scans for both versions: instead of an acoustic signal, users can choose to be alerted by a clearly visible Green spot on the bar code itself.

The supplied scanner stand allows professional hand-held and free-hand operation of the Heron. Once inserted into the stand, the free-hand mode is activated. Even in this mode the »Green-Spot« indication simplifies and speeds up scanning: it shows users exactly how to align the bar code below the device. Consequently, no matter if used as hand-held scanner, or as presentation scanner, using the Heron is always extremely simple. Besides all commercial bar codes, the Heron scans RSS codes (Reduced Space Symbologies). These increasingly popular bar codes are much smaller than conventional bar codes and offer a substantially higher density of information as well as high scan reliability.

All Heron devices come with a multi-interface for RS232, USB, keyboard wedge and light pen support. The interface is integrated into every standard version. Please order connection cables separately. Simply plug in the cables and activate the interface with programming bar codes.

Specifications	Item number
• Heron (CCD), PS/2, RS232 and USB, dark grey	dlhed130
• Heron (CCD), PS/2, RS232 and USB, black	dlhed130s
• To be ordered in any case:	
• Required connection cables	see page 31

Datalogic QuickScan L

- **Bar code laser scanner with ergonomic pistol grip**
- **Water and dust resistant – IP42 compliant**
- **Flexible use as hand-held or desktop scanner (optional gooseneck stand available)**
- **Fast scan window change prevents downtime**
- **All interfaces in one device: USB, RS232, and keyboard wedge**

The QuickScan L is the perfect all-round solution for office, workshop or POS, wherever short distance scans require high scan performance. It comes not only with a low price – its laser technology offers excellent scan characteristics and high durability. The compact hand-held scanner is small, light and features an ergonomic pistol grip for comfort during daily use.

The QuickScan L is preferably used in retail and office applications. An optional gooseneck stand allows users to operate the scanner both as hand-held or desktop device, a plus for many customers. It has a scan performance of 100 scans per second and reads a large number of compatible bar codes like most 1D and GS1 DataBar codes (formerly RSS). The exceptionally wide scan angle of 47° guarantees perfect scans of very large bar codes from a short distance. A short reading distance of laser scanners often results in worn scan windows. The QuickScan L was designed with this problem in mind and allows users to replace the scan window directly, if necessary. Consequently, replacements and maintenance become a thing of the past. Replacement windows are available at reasonable prices and ordered separately.

The QuickScan L is also appealing due to its durability. The device is IP42 compliant and protected against dust and liquid entry. Furthermore, the scanner survives drop tests from 1.5 m height and is also designed for more than 1 million scan cycles.

Extensive accessories for this scanner offer flexibility during installation and help you fulfil all customer requirements.

Specifications	Item number
• QS L, KBW, RS232 and USB, light grey	dlqsl
• QS L, KBW, RS232 and USB, black	dlqslsw
• QS L, KBW-Kit, incl. cable and stand, light grey	dlqslw
• QS L, KBW-Kit, incl. cable and stand, black	dlqslwsw
• QS L, USB-Kit, incl. cable and stand, light grey	dlqslu
• QS L, USB-Kit, incl. cable and stand, black	dlqslusw
• **To be ordered in any case:**	
• Required connection cables	see page 31
• **To be ordered if required:**	
• Replacemant scan window	see page 31

Datalogic QuickScan 6500BT

- **Bar code scanner with excellent performance and ergonomics**
- **High-end laser scanner (450 scans/sec.) – reads 1D and PDF417 bar codes**
- **Stylish and sturdy design**
- **Integrated flash memory for easy software upgrades**
- **All interfaces in one device: USB, RS232 and keyboard wedge**
- **Water and dust resistant – IP52 compliant**

The devices of the QuickScan series are perfect for medium-size throughputs. Versatile configuration options help to adapt to ever-changing requirements at checkouts, warehouses and workshops.

An excellent linear picture scanning performance of up to 450 scans per second guarantees high-comfort bar code scans. Ergonomic scans of all commercial 1D and PDF417 bar codes are guaranteed – thanks to a maximum scanning width of up to 38 cm and the intelligent »QuadraLogic« decoder software.

The scanner´s design and professional hardware guarantee fatigueless and professional work – even after repeated drops from 1.5 m height, it proves to be fail-safe. Naturally, these scanners are IP52 certified.

Bar code configuration makes integration easy and allows reconfiguration of the scanner after system changes. It features an operating range of up to ten metres to the base station to give your customer the highest flexibility for reading 1D and PDF417 bar codes. If the scanner is taken outside of the operating range of the Bluetooth station, it will acoustically warn the user.

With the powerful lithium-ion battery users can complete more than 33,000 scans with a single charge. Users then simply operate the QuickScans with commercial batteries or fully recharge the li-ion battery in 3.5 hours.

Specifications	Item number
• QS 1D, Bluetooth, KBW, RS232 and USB, light grey	ps6500bt
• QS 1D, Bluetooth, KBW, RS232 and USB, black	ps6500bts
• **All Bluetooth versions include:**	
• Cradle	
• **To be ordered in any case:**	
• Required connection cables	see page 31

Datalogic QuickScan Mobile

- **Mobile bar code scanner with RF technology (433 MHz)**
- **Linear imager with CCD-Sensor - exceptional durability due to the absence of moving parts**
- **Integrated batch mode - buffer for data while out of radio range**
- **Multi-interface: USB, RS232, keyboard wedge or wand emulation in a single unit**
- **Complete kit including scanner, li-ion battery and RF-cradle**

The Datalogic QuickScan Mobile hand-held scanner is ideal for cash point applications. The RF-technology makes this scanner the absolute favorite in stock-taking, price inspection and shelf replenishment. The linear imager uses narrow band communication in the 433 MHz range. The 12 m radio range of the QuickScan Mobile allows your customers to work within an ample area, avoiding the restrictions of wired devices. Your employees' workstations will not only become much more efficient but safer as well.

Compared to laser technology devices, the construction of this CCD-Imager ensures excellent durability and endurance due to the absence of movable parts and offers fast, accurate reading performance. The standard multi-interface allows interface flexibility (USB, RS232, keyboard wedge and wand emulation). Plug & Scan kits provide for an easy installation. The »Scan While Charging« function guarantees contactless scanning at the workstation while simultaneously recharging the battery. The unit will store all data with its patented batch mode when outside of the radio range of the cradle.

All these features combined with its excellent 1D and GS1 Data Bar Code (formerly RSS code) capturing capability make it an outstanding and reliable choice. The Datalogic QuickScan Mobile is supplied as a Kit (scanner, battery and RF cradle included), which makes the scanner the ideal solution for retail and commercial environments in which wireless scanning is the key to optimal productivity, low total operation costs and a profitable business operation.

Specifications	Item number
• QS Mobile, KBW, RS232 and USB, light grey	dlqsm1
• QS Mobile, KBW, RS232 and USB, black	dlqsm1sw
• **Included in delivery:**	
• Cradle	
• **To be ordered in any case:**	
• Required connection cables	see page 31

Datalogic QuickScan I

- **Linear imager (starter model) for commerce and offices**
- **High resolution of up to 4 mils**
- **Fast read rate of up to 270 decodes/sec.**
- **Spare scan window and gooseneck optional**
- **Multi-interface in one system: USB, RS232, keyboard wedge**

The Datalogic QuickScan I QD2100 is the ideal introductory model of linear imagers, as it is designed for universal use in commerce and document management. Furthermore, it is suitable for applications in express mail and the postal service. Due to its ergonomic design, its low weight, and its small and handy size, the scanner is ideal for daily use.

The QuickScan I has a high resolution of up to 4 mils. Thus, the linear imager reads a large range of codes, including most of the 1D-codes, as well as linear GS1 DataBar codes. The QuickScan I is equipped with the »Green Spot« patented by Datalogic, a positive reading confirmation directly on the code. The latter remains active in the stand-by mode, showing the user the optimal positioning for a fast and intuitive scan.

The Datalogic QuickScan I is designed for long-term use. If necessary, the user simply replaces a scratched scan window with a new one (=optional). This is designed to reduce running costs and prolong the service life of the scanner, a feature which you cannot find in similar models of other manufacturers.

The Aladdin configuration programme of Datalogic, which is included in the scope of delivery, offers user-friendly features that make the installation and start-up of the system very easy – even for inexperienced users. The Datalogic QuickScan I is equipped with all of the interfaces, such as USB, RS232 and keyboard wedge – all in one system. These features render it particularly flexible in terms of data transfer.

Due to the optional gooseneck stand the reader can be used as a hand-held or presentation scanner, which is an additional and handy feature for many of your customers. A large number of accessories offer flexibility with regard to the installation and additional turnover, tailored to your customers´ specific needs.

Specifications	Item number
• QS I, RS232, IBM 46XX and USB, light grey	dlqsi
• QS I, RS232, IBM 46XX and USB, black	dlqsis
• QS I, RS232, KBW, Wand and USB, light grey	dlqsiwa
• QS I, RS232, KBW, Wand and USB, black	dlqsiwas
• QS I, USB, incl. cable and stand, light grey	dlqsiw
• QS I, USB, incl. cable and stand, black	dlqsiws

Datalogic PD7100

- **Aggressive and sturdy 1D bar code scanner for logistics, production and retail**
- **Wired linear imager to meet the highest demands**
- **Water and dust resistant (IP65 rated)**
- **Multi-Interface: PS/2, RS232, USB (version with IBM interface available)**
- **With patented »Green-Spot« - for easy good read recognition**

With the new PD7100 bar code scanner, Datalogic extends its traditional range of robust industry hand-held scanners. This robust scanner is equipped with a linear imager with a large scanning range and versatile connectivity options, while at the same time offering extreme robustness. Its innovative and unique design as well as the combination of different scanning features such as high code resolution at large scanning distances make the PD7100 a truly versatile device that is extremely easy to use.

The PowerScan PD7100 comes with enhanced scanning optics and a new hardware and software architecture - affordable performance that will convince every one of your customers.

High-performance 1D imager technology (390 scans per second), 3 mils maximum code resolution, a scanning range of up to 3 m and wide angle detection make the PD7100 one of the fastest scanners available – perfect for various applications in transport, logistics, production, and especially wherever thousands of codes have to be scanned as quickly as possible.

A rubber-sheathed housing protects the PD7100 against impacts. Even repeated drops from two metres do not damage it. Like all PowerScan products, this dust and splash-resistant scanner complies with the IP65 industry standard and works reliably at continuous performance under the most unfavourable conditions. The patented Green Spot technology and an extra loud beep indicate successful scans clearly, both visually and acoustically, in noisy environments. Optionally, the PD7100 is also available with integrated pointer - a bar code targeting device for the best possible performance.

The PowerScan PD7100 is available with two different interface combinations: the standard multi-interface supports RS232, keyboard wedge, pen emulation and USB, while models with an IBM interface and integrated pointer are also available from stock.

Specifications	Item number
• PD7130, linear imager, 390 scans/sec., Green-Spot, KBW, RS232, USB, IP65, yellow/black	dlpd7100
• PD7130, linear imager, 390 scans/sec., Green-Spot, KBW, RS232, USB, IP65, Pointer, yellow/black	dlpd7100p
• PD7130, linear imager, 390 scans/sec., Green-Spot, KBW, RS232, USB, IP65, black/black	dlpd7100s
• PD7130, linear imager, 390 scans/sec., Green-Spot, KBW, RS232, USB, IP65, Pointer, black/black	dlpd7100ps
• **To be ordered in any case:**	
• PSU for RS232-Version	see page 31
• Required connection cables	see page 31

Datalogic PBT7100

- **Robust 1D bar code scanner for high-speed applications in logistics and production**
- **High-quality linear imager with Bluetooth interface for high demands and flexibility**
- **High bar code resolution, wide angle scanning and a reading range of up to 3 metres**
- **Multi-Interface: Keyboard Wedge, RS232, USB (IBM interface variants available)**
- **Patented »Green Spot« and acoustic confirmation signals for noisy environments**

The new bar code reader PBT7100 extends the range of Datalogic's cost-effective, robust industry scanners with a professional Bluetooth model. The significantly increased mobility makes the PBT7100 perfect for logistics, production and retail. It combines high code resolution (up to 3 mils), wide angle scanning for extra wide codes and a large scanning range of up to 3 metres, features that are usually not available in a single device. This easy-to-use scanner makes every scan as simple as never before and on top of this it wins over your customers with high-class performance at a competitive price.

Equipped with linear imaging technology, the PBT7100 reads all standard linear codes, GS1 DataBar and stacked codes at up to 390 scans per second, which makes it one of the fastest industry scanners. It is especially suitable for high-performance applications where thousands of codes have to be scanned in a very short period of time. The integrated Bluetooth interface gives this scanner an enormously extended operating range and mobility. Choose one of two connectivity options: either data transfer using the optional base station or with other Bluetooth devices and use it within an operating range of up to 100 m.

Like all PowerScan products, the PBT7100 complies with the IP65 industry standard, working reliably at continuous performance under the most unfavourable conditions. It is protected against dust and splashes of water, and it can sustain drops from two metres without damage.

Using the patented Green Spot technology and an extra-loud beep, successful scans are indicated clearly both visually and acoustically, even in extremely noisy environments. Optionally, the PBT7100 is also available with integrated pointer, a targeting device for best possible performance.

Base stations for the PowerScan PBT7100 are available with two different interface combinations: use either the standard multi-interface that supports RS232, keyboard wedge, pen emulation and USB, or use a model with IBM interface. Of course, we have both models always in stock.

Specifications	Item number
• PBT7100, linear imager, 390 scans/sec., Green-Spot, Bluetooth, IP65, yellow/black	dlps7100
• PBT7100, linear imager, 390 scans/sec., Green-Spot, Bluetooth, IP65, Pointer, yellow/black	dlps7100-2
• PBT7100, linear imager, 390 scans/sec., Green-Spot, Bluetooth, IP65, black/black	dlps7100-3
• PBT7100, linear imager, 390 scans/sec.,Green-Spot, Bluetooth, IP65, Pointer, black/black	dlps7100-4

Datalogic PD8330

- **Exceptionally robust bar code scanner logistics and production**
- **Wired high-end performance version**
- **All interfaces in one device: USB, RS232 and keyboard wedge**
- **Patented Green Spot indication – scanning made easy**
- **Integrated Puzzle Solver technology – automatic concatenation of multiple scans**

The PowerScan8300 series combines high-end performance with the usual industry-scanner robustness of the PowerScan. As the successor to the well-known Dragon with its exceptional ergonomics, the new Datalogic 8300 series presents itself as the flagship model for all Datalogic scanners for logistics and production.

The Datalogic 8300 series renews the hand-held scanner market for industrial applications. The main goals of this bar code scanner series – ergonomics and durability – have been successfully incorporated into all important features. The perfect combination of these features results in the many advantages of the PowerScan family.

Operational comfort and productivity – important criteria for applications with intensive use – are guaranteed by an ergonomic grip known from the Dragon series, balanced weight and the well-known easily perceptible PowerScan indicating signals. All versions of this series have a clearly audible beeper, bright LEDs (especially for areas with high noise level) and a clearly visible targeting spot for easy bar code scans. The scanner's robustness can endure even the toughest industrial conditions: shock-absorbing supports for all optical components and a specially designed rubber protective cover help to easily withstand falls on concrete from 2 metres height.

In addition, its data collection features offer professional performance and functionality: all established one-dimensional bar codes are recognised instantly. The high-speed M16 microprocessor-based architecture allows for smooth and fast scans, even with badly printed or damaged labels. The auto-range version of this professional industry scanner features an extended scanning range of up to 10 metres. Larger bar codes on packages or products in manufacturing, logistics or distribution centres can be scanned by the user at greater distances, which improves productivity and ergonomics significantly.

The devices of the PowerScan series are also ideal for a wide variety of IT environments. While USB, serial, and keyboard wedge are integrated into all standard versions, further interface types for special computer systems are always available on request.

Specifications	Item number
• PD8330, Standard HR laser, KBW, RS232 and USB	dlpsd8330
• PD8330AR, Auto-Range laser, KBW, RS232 and USB	dlpsd8330a
• **To be ordered in any case:**	
• PSU for RS232-Version	see page 31
• Required connection cables	see page 31

Datalogic PD8500 2D

- **Professional bar code gun with megapixel scan engine**
- **Omni-directional scanning of 1D and 2D bar codes**
- **High performance and ergonomics: standard, high-resolution and wide-angle models**
- **All interfaces in one device: USB, RS232, and keyboard wedge**

The PD85XX uses professional megapixel optics (1,280x1,048 pixels) for omni-directional scanning of all commercial 1D and 2D bar codes, sequence codes and postcodes. The scanner can be used for image-based applications, such as signature and OCR scanning. The captured image is processed immediately or is transferred to the host in various formats (.bmp, .jpg, .tif).

Various functions enable users to process a complete image management even before the image capture using up to four presets: zoom, contrast, brightness and framing. A double-click trigger for aiming and scanning makes alignment even easier. Your customer can choose from models with different resolutions and scan distances - whether is it standard, high-density or wide-angle, the right scan-engine is available for every application.

Specifications	Item number
• PD8530, SR, 1 megapixel, KBW, RS232, USB	dld8530
• PD8530HD, HD, 1 megapixel, KBW, RS232, USB	dld8530hd
• PD8530WA, WA, 1 megapixel, KBW, RS232, USB	dld8530wa
• **To be ordered in any case:**	
• PSU for RS232-Version	see page 31
• Required connection cables	see page 31

Notes

Datalogic PM8300

- **Sturdy bar code scanner for industrial applications**
- **Portable wireless version of the professional scanner**
- **Excellent ergonomics and flexibility: up to 50 m operating range**
- **All interfaces in one device: USB, RS232, and keyboard wedge**
- **Patented Green Spot indication – scanning made easy**

The mobile scanners of the PowerScan8300 family offer the same professional and robust characteristics as the wired versions. The extremely durable housing is made of impact-resistant ABS plastic and is designed for constant use in industry and retail. As a battery-powered model it still offers particularly long operating times. It can perform over 60,000 scans per charge and has a short charging period of only two hours, making it suitable for all applications in production and logistics. In order to make bar code scanning possible even under very noisy conditions, the scanner is equipped with a clearly audible beeper with adjustable volume, extra-bright LEDs and a targeting spot for easy scans.

It is a high-resolution laser scanner with a large read distance and a fast microprocessor for all common one-dimensional bar codes.

The scanners of the PowerScan M83xx series submit all data in the licence-free 433MHz frequency range, with bidirectional communication between scanner and host. Customers can use a maximum of 2,000 devices on the same frequency concurrently – a number that is usually unattainable. In the network, every base station manages a maximum of 32 devices concurrently. As a result, the Datalogic wireless system is a powerful and flexible solution for simple applications as well as for complex projects.

Its robust mechanics were developed and tested in such a way that the scanner can even resist extreme impacts (such as ten drops from 2 m height in tests), as well as constant normal impacts (1,000 drops from 1 m height) without impairing scanning performance.

In order to increase mobile scanning efficiency even further, we offer versions with an integrated 32 x 98 pixel display and a keypad with three keys. The user can use this for active host communication and receive additional information (such as human-readable article descriptions), or directly display the scanned bar codes.

Specifications	Item number
• PM8300, standard HR laser	dlpsm8300
• PM8300-D, standard HR laser, Display, 3-keys-function	dlpsm8300d
• PM8300AR, Auto-Range laser	dlpsm8300a
• PM8300AR-D, Auto-Range laser, Display, 3-keys-function	dlpsm830da
• **To be ordered in any case:**	
• Cradle, multi-interface	dlpscr8030
• PSU	see page 31
• Required connection cables	see page 31

Datalogic PM8300-DK

- **Robust handheld laser scanner for industrial applications**
- **Mobile data transfer with 433 MHz**
- **Integrated display and keypad for manual input**
- **Compliant with IP64 safety standard**
- **Integrated multi-interface: USB, RS232 and keyboard wedge**

The new state-of-the-art model among industrial scanners, the PM8300-DK suits all applications in logistics and production. Its abilities have been greatly extended with a display and a 16-key alphanumeric keypad. Additional information, such as item descriptions, is displayed and unreadable bar codes or quantities can be entered manually using the telephone-like alphanumeric keypad. The PM8300-DK can thus be used for applications that usually require expensive mobile data collection devices.

The PM8300-DK reads even badly printed or damaged bar codes quickly and accurately without any problem. The patented Datalogic »Green Spot« that confirms successful scans directly on the code is also integrated. Whether using point-to-point or a network application, data transfer with a frequency of 433 MHz ensures a wide range of possibilities.

Specifications	Item number
• PM8300-DK, KBW, RS232, USB	dlgri
• PM8300-DK, KBW, RS232, USB	dlgrisw
• More interfaces and Kits	on demand
• **To be ordered in any case:**	
• Cradle, multi-interface	dlpscr8030

Datalogic PM8500 2D

- **Wireless, industrial imager with megapixel scan engine**
- **Reads 1D and 2D bar codes omnidirectionally**
- **High performance and ergonomics: versions with standard, high and wide-angle resolution**
- **3GL technology and patented »Green Spot« for excellent scan confirmation**

With the new PowerScan PM8500 2D, Datalogic adds a wireless area imager to its line of first-class robust scanners that are suitable for industrial use. With unrestricted mobility, it omnidirectionally scans all standard 1D and 2D codes with high-resolution megapixel optics and transfers these via 433MHz radio standard. Ideal for all applications in production and logistics, the PM8500 is available with three different optics options: »Standard Range« and »High Density« for typical scanning conditions, as well as »Wide Angle« for scanning larger and wider codes.

Equipped with the exclusive 3GL technology (»Green-Spot« directly on the code, as well as two LEDs on the upper and rear side of the device), a scan confirmation is visible from every angle while the loud signal tone provides additional clarity in noisy settings. Developed for extreme ambient conditions, as standard the PM8500 2D comes without (IP65), or optionally with a display and 3-button keypad (IP64), where useful information on battery status is also indicated. Time or item descriptions of the scanned bar codes are bidirectionally communicated with the host in the wink of an eye.

Specifications	Item number
• PM8500, multi-interface	dlpsm8500
• PM8500, multi-interface, 3-button keypad, display	dlpsm8500d

Datalogic Magellan 1100i

- **Omnidirectional presentation scanner for trade, chemists' and logistics**
- **Fast processor and high scan rates for better reading performance of 1D and 2D bar codes**
- **Illumix lighting technology recognises bar codes from laptops, mobile phones, PDAs and monitors**

The Magellan is one of the most robust and compact presentation scanners on the market and has been an established player for a long time in retail, health care, libraries, as well as logistics. With the Magellan 1100i, we offer you an omnidirectional, on-counter scanner that impresses both in manual as well as counter operation through high processor and scan performance. It reliably reads 1D and 2D codes as well as images (different versions available) through improved imaging technology. the Illumix lighting technology further improves ergonomics provided by the patented Green-Spot scan confirmation. This feature allows the device to also read codes from backlit surfaces such as mobile phones, PDAs or screen surfaces, whether in extremely dark or bright surroundings.
Versions with a trigger and a targeting mode for scanning from lists, as well as optional EAS deactivation expand the application possibilities of the robust scanner (IP52) enormously. The device operates without moveable parts, making it an all-rounder in logistics and production. A quick pass over a surface or targeted selection of information increases the speed and provides for extremely efficient operation. A multi-interface and various stand options give you the necessary flexibility.

Specifications	Item number
• Magellan 1100i, 1D, RS232, light grey	psmg1100n
• Magellan 1100i, 1D, USB Kit, trigger, black	psmg1100-2

Datalogic Magellan 1400i

- **Presentation scanner for demanding POS areas**
- **High performance with imager-technology**
- **Automatic bar code type recognition – digitally distinguishes between PDF-417 and 1D bar codes**
- **Optional single-line version**
- **Water and dust resistant – IP52 compliant**

For retailers, the POS is increasingly becoming a critical point for complex bottleneck situations. The highly powerful Magellan 1400i by Datalogic professionally deals with this challenge.

The newest imager-technology with high-resolution CMOS camera allows the Magellan to work without moving parts like those found in laser scanners. Excellent scanning performance and easy operation are but a few of the many outstanding features of this compact presentation scanner. It reads all commercial bar codes and distinguishes between PDF-417 and 1D fully automatically. Precise alignment of the scanning area and a high scan rate of 110 scans per second prevent scan errors and increases ergonomics significantly.

Specifications	Item number
• Magellan 1400i, 5V, black	psmg1400s
• Magellan 1400i, 5V, grey	psmg1400
• **To be ordered in any case:**	
• Required connection cables	see page 31

Notes

Datalogic Magellan 8300/8400

- **Bi-optic omnidirectional laser scanner for food retail**
- **Extremely fast scans and decoding of any bar code**
- **High performance boost at checkouts with five-sided scans**
- **Optional aerial for EAS deactivation**
- **Programmable multi-interface**

Magellan scanners from Datalogic can be found in almost any large supermarket chain in Europe. With the Magellan, Datalogic has been the market leader in this sector for many years. Of course this exceptionally large market share is not a coincidence: the new 8300/8400 series continues Datalogic's concept for success with uncompromising reliable POS scanners for highly professional applications at an excellent price-performance-ratio. These scanners offer state-of-the-art technology that guarantees high throughput and improves employee performance and service life. Queues and failures are reduced to a minimum.

The main advantages of the Datalogic Magellan family provide a significant performance boost and higher productivity. System integrators have more satisfied customers and the certainty of providing extra value with one of the best available solutions. Magellan scanners are extremely reliable and of high quality, which ensures a smooth running system. Additionally, these scanners offer unique features that give them various advantages over comparable products. According to the manufacturer, the scan performance, throughput and scan rates are unrivalled on the global market. Efficiency of POS stations can be increased significantly, especially in low-margin retail sectors where every single factor can effect loss and profit.

The Magellan series offers various models (8300/8400, 8500 and 8600) that are optimised for different customer requirements. Devices of the 8300 and 8400 series provide the same scan performance. However, the Magellan 8400 also includes integrated scales and an optional customer display, and is used for certified applications at service counters or weighing mail order goods, among other applications. On request, integrated products of specific scales manufacturers (e.g. Bizerba, Mettenler-Toledo, etc.) are available as well. Both models offer genuine five-sided bi-optic and omnidirectional scanning. This means the scanner detects the bar code regardless of the alignment with the object, simultaneously in two directions. The bar codes are scanned from 5 of 6 sides of the scanned object (all sides except the top). This saves users from having to search for bar codes or aligning the scan window. Simply passing the code along the scanner is sufficient. At the same time, the scanning speed has increased enormously and queues are prevented effectively. A high scan rate of 3,900 scanlines per second in combination with sophisticated decoding electronics ensure that the bar codes are detected under any conditions (including torn, damaged, heavily stained, uneven or badly printed codes).

In addition to improved scan rates, the Magellan 8400 also offers highly reliable weighing: the patented All-Weighs scale pan reduces weighing-related losses tremendously. Many objects in food retail businesses are not suitable for small scale pans and can yield incorrect values. Eventually, the weighing loss exceeds the profit margin of many of these products.

Furthermore, the new Magellan series comes with improved power saving capabilities that reduce power consumption by up to 77% – a feature that lowers expenditure and is environmentally-friendly. A flexible interface solution that covers all established interfaces and offers extensive evaluation and analysis functions completes the scan features of the device. Compared to the Magellan 8300, the Magellan 8400 offers a higher scan rate and an extended range of functions: its analysis features help to identify poor recurrent bar codes and performance benchmarking, as well as evaluation of user habits (e.g. a user focuses on one scan window only and tries to align the bar code unnecessarily).

Optionally, the Magellan 8300 as well as the Magellan 8400 are available with EAS deactivation functions. Security labels by Checkpoint or Sensormatik are then deactivated automatically with a deactivator from the EAS manufacturer and do not trigger the alarm.

Specifications	Item number
• Magellan 8300, bi-directional scanning field, 3,900 scan lines, five-side scanning, 360°, multi-if	psmg8300
• Magellan 8400, bi-directional scanning field, 5,200 scan lines, five-side scanning, 360°, reporting, multi-if	psmg8400
• **To be ordered in any case:**	
• Required connection cables and PSU	psmgps5

Datalogic Magellan 8500

- **Bi-optic omnidirectional laser scanner for many retail sectors**
- **Extremely fast scanning and decoding of any bar code**
- **Detects bar codes on all six sides**
- **Optional aerial for EAS deactivation**
- **Programmable multi-interface**

The Magellan 8500 offers options for deactivation of secured goods in combination with the required hardware for Checkpoint security labels. Includes a practical multi-interface: a single model, yet a variety of interfaces in one – it is configured for the desired interface according to the connected cable – USB, keyboard wedge or RS232. A large number of emulators for various POS and industry protocols are available. React to systems changes simply by exchanging the cables– it is not necessary to change the scanner anymore. Extensive accessories and a complete range of spare parts offer high flexibility during installation, as well as a safe investment.

The Magellan 8500 offers the best scan performance of all Magellan scanners: Genuine six-sided scanning detects bar codes on any side of the object, even on top. Accordingly, users are not required to examine any goods at all, as the bar code is always recognised regardless of its position on the packaging. This improves POS processes further, as the user simply passes the goods along the scan window to the customer, who hardly can keep up with the speed.

Furthermore, the Magellan 8500 is equipped with the patented Omega-Tek scan technology that offers sophisticated training and analysis tools for employee training. Within any existing legal restrictions, the user optimises his own scanning habits with the help of the scanners evaluation, or compares the results with colleagues to reach the same throughput and make sure that optimised and fast scanning is guaranteed even at peak hours.

Excellent characteristics and a compact design make the Magellan 8500 the right choice for all POS environments with high throughput. Its omnidirectional field of view detects the bar code from any angle and combines a high success rate with excellent reliability and easy use.

Specifications	Item number
• Magellan 8500, bi-directional scanning field, 6,400 scan lines, six-side scanning, 360°x2, multi-if	psmg8500
• **To be ordered in any case:**	
• Required connection cables and PSU	psmgps5

Datalogic Magellan 2300HS/2200VS

- **Professional in-counter scanner for various applications**
- **High performance and speed: 15 cm depth of field, 100 scans per second**
- **Multi-interface for fast system integration**
- **Port for additional hand-held scanner**
- **PIR software for automatic system analysis supplied**

The Magellan family offers your customer in-counter scanners of the highest quality – used by all large retailers successfully for years. The Magellan is the perfect solution whenever high performance and professional hardware at a heavily frequented POS is required. The compact devices of the Magellan 2xxx family are fully compatible with their predecessor HS1250 and can consequently be used for system upgrades as well as complete new POS systems. The Magellan product family demonstrates excellent characteristics in terms of scan rates, readability of badly printed labels and improved ergonomics when compared to other models. We offer both horizontal and vertical in-counter scanners by Datalogic.

The compact Magellan 2300HS is a horizontal scanner that is based on the same professional technology that is used in the 8000 series. It is therefore especially suited for medium to high throughput applications in food retail, chemists or department stores. A combinatino of 1,800 scan lines per second and depth of field of over 15 cm guarantee rapid article scanning, while unique software features and functions provide further operational capability.

With dimensions of merely 16x16 cm, it features a dense scan pattern of 18 lines and 100 scans per second for maximum POS ergonomics. An integrated Flash memory guarantees easy Firmware upgrades, and software features such as Productivity Index Reporting and Advanced First-Strike for decoding offer your customer analysis, administrative and remote functions.

With the integrated multi-interface the Magellan is always flexible and allows you react to customer requirements instantly. You only need the corresponding connection cable and the device communicates over the selected interface. Furthermore, it features a powered RS232 port that can be used to connect an additional external hand-held scanner.

The vertical Magellan 2200VS reads all commercial bar codes just like its horizontal version. Its large, 20-line, omni-directional scan pattern also reads bar codes at 100 scans per second. Install it on the supplied platform at the cash desk and simply connect it over the interface of your choice. Cash desk personnel then pass articles along the large impact-resistant view window - of course with generous clearance space due to the 23 cm depth of field. The integrated beeper then confirms all successfully scanned bar codes and consequently speeds up the checkout throughput.

Specifications	Item number
• Magellan 2300HS, multi interface	psmg2300
• Magellan 2200VS, multi interface	psmg2200
• **To be ordered in any case:**	
• Required connection cables	see page 31

Datalogic Magellan 3200VSi

- **Vertical in-counter scanner with powerful imaging technology**
- **High-speed scanning of linear and 2D bar codes**
- **Extremely durable: no moving components**
- **Quick adaption using software-based configuration**

The in-counter scanner Magellan 3200VSi completely redefines bar code scanning at the checkout: as a professional imager for 2D and GS1 codes, it delivers tremendous results when scanning difficult-to-read bar codes, e.g. ripped or poorly printed ones – at a speed that up until now only laser scanners could boast. The intelligent lighting technology Illumix provides maximum productivity and ergonomic operation, reading even from mobile phones, PDAs and computer monitors.

Due to the powerful imager technology, most of the scanner functions are software based, making management and configuration simple using diverse tools. Another advantage: the extremely fast imager has no moving components, laser modules or rotating motors, thereby guaranteeing particular long-lasting and smooth operation over many years. Both a micro-SD slot as well as various interfaces (IBM, USB, RS232, powered USB) are onboard as standard. Being compatible with its predecessors, it adopts the same cable, opening in the table and even the very expensive sapphire glass, ensuring an extremely low TCO.

Specifications	Item number
• 3200VSI, 1D, RS232	psmg3200
• 3200VSI, 1D/2D, USB, KBW, incl. PSU	psmg3200-2

Datalogic Magellan 3300HSi

NEW!

- **Powerful built-in scanner with imaging technology**
- **Reads all GS1 and 2D bar codes (2D version) at top speed**
- **Longevity thanks to robust stainless steel casing**
- **Simple software updates via USB or microSD**

The Magellan 3300HSi is specially designed for the demanding retail environment and meets all the expectations of a powerful built-in scanner with the greatest of ease. As the first Magellan in-counter scanner, it comes equipped with the newest imaging technology, revolutionising the scanning process in high-traffic POS areas.

Omnidirectional scanning in minimal space, with the speed of a laser scanner and the performance of an imager are its most powerful arguments. It comes standard with the ability to read all 1D and GS1 codes; via upgrades, it can also read 2D codes. Or select the 2D model from the beginning. Thanks to imaging technology, it does not require the moving components of a laser scanner, which helps reduce damage and breakdowns to a minimum. Software customisation is a breeze thanks to the USB interface and integrated microSD card reader, while users simply connect an additional hand-held scanner via RS232. The compact stainless steel construction is extremely robust, whereby the Magellan ensures flexible installation and performs its professional duties for many years to come. Helpful features include the green LED, which signals a successful scan, as well as the automatic standby mode for longer periods of inactivity.

Specifications	Item number
• 3300HSi, 1D, RS232	psmg3300
• 3300HSi, 2D, multi-IF, USB-Kit, incl. PSU	psmg3300-2

Datalogic Cables and Accessories

Connection cable, type	suitable for	Description	Datalogic-PN	Item Number
• PS/2	Gryphon, Touch, Heron, Dragon,*	straight, grey, 2.0 m	90G001010	dlcab321
• PS/2	Gryphon, Touch, Heron, Dragon,*	twisted, grey, 2.0 m	90A051360	dlcab365
• PS/2	Gryphon, Touch, Heron, Dragon*	twisted, grey, 2.0 m, ext. PSU.	90A051740	dlcab391
• PS/2	Gryphon, Touch, Heron, Dragon,*	special cable for notebooks, w/o wedge	90A051140	dlcab321n
• PS/2	Magellan 1000/1400**	twisted, 3.5 m, ext. PSU.	8-0741-17	pscab74117
• PS/2	PowerScan	straight, for PS8000 Series	CAB-436	dlcab436
• PS/2	PowerScan	twisted, for PS8000 Series	CAB-437	dlcab437
• RS232	Gryphon, Touch, Heron, Dragon*	twisted, grey, 2.0 m	90A051891	dlcab408
• RS232	Gryphon, Touch, Heron, Dragon,*	straight, grey, 2.0 m	90G001070	dlcab327
• RS232	Gryphon, Touch, Heron, Dragon,*	twisted, grey, 2.0 m	90A051330	dlcab362
• RS232	Gryphon, Touch, Heron, Dragon*	straight, grey, 2.0 m, Pin9 power	90A051230	dlcab350
• RS232	Magellan 1000/1400**	twisted, 3.5 m, ext. PSU.	8-0736-80	pscab73680
• RS232	PowerScan	straight, black, 2.0 m	CAB-433	dlcab433
• RS232	PowerScan	twisted, black, 2.0 m	CAB-434	dlcab434
• USB	Gryphon, Touch, Heron, Dragon,*	straight, grey, 2.0 m	90A051902	dlcab412
• USB	Magellan 1000/1400, QuickScan	twisted, black, 3.5 m, POT	8-0734-16	pscab73416
• USB	Magellan 1000/1400**	straight, black, 2.0 m, POT, High-Speed	8-0734-10	pscab73410
• USB	PowerScan	straight, black, 2.0 m	CAB-438	dlcab438
• USB	PowerScan	twisted, black, 3.5 m	CAB-439	dlcab439
• USB	QS6000 Serie	straight, black, 4.5 m, POT	8-0734-08	pscab80734
• Powered-USB	Gryphon, Touch, Heron, Dragon,*	straight, grey, 2.0 m	90A051903	dlcab413
• Adaptor	Diamond	universal adaptor	90A051500	dlcab376
• IBM	Gryphon, Heron, Firescan	straight, RS485, 4PIN	90A051420	dlcab370
• IBM	Gryphon, Touch, Heron, Dragon	straight, RJ45	90G001050	dlcab325

Accessories	suitable for	Description	Datalogic PN	Item Number
• Battery pack	PowerScan 7000BT	Li-Ion battery, 3,7 V, 2400mA	11-0218	ps7000batt
• Docking station	Gryphon Mobile	Base station/charger	90A351000	dlgrom
• Docking station	Gryphon Mobile	Base station/charger, black	90A351023	dlgromsw
• Docking station	PowerScan 8030	Base station/charger	BC8030-433	dlpscr8030
• Charger/Receiver	PowerScan RF	Without AC adaptor, RS232 and PS/2	PS13-1010R	ps7000rfcr
• Stand	Gryphon	Desktop or wall-mounting	90ACC1770	dlgrhold
• Stand	Gryphon	Stand for hands-free using	90ACC1760	dlgrhold3
• Stand	Gryphon, Firescan	Stand for hands-free using	90ACC1873	dlgrhold4
• Stand	Gryphon, Dragon, Firescan, Lynx	Desktop or wall-mounting, grey	90ACC1770	dlgrhold
• Stand	Gryphon, Dragon, Firescan, Lynx	Desktop or wall-mounting, black	90ACC1790	dlgrholdsw
• Stand	Touch65/90	Desktop or wall-mounting	90ACC1879	dlt60hold
• Stand	Touch65	Desktop or wall-mounting	90ACC1878	dlt65hold
• Holder	Gryphon	Holder for hands-free using	90ACC1760	dlgrhold3
• Holder	Gryphon, Firescan	Holder for hands-free using	90ACC1873	dlgrhold4
• Base	Magellan 1000i	Base, flexible, height 23 cm, black	11-0143	psmggss
• Base	Magellan 1000i	Base, flexible, height 23 cm, grey	11-0160	psmggs
• Base	Magellan 1000i	Base, height 76 mm, black	11-0114	psmgps3
• Base	Magellan 1000i	Base, height 76 mm, grey	11-0115	psmgrs
• Base	QuickScan 6500	Base, black	8-0681-02	ps65hss
• Base	QuickScan 6500	Base, grey	8-0681-01	ps65hs
• Safety case	PowerScan 8000	Universal belt case	HLS-8000	dlpscas2
• Safety case	PowerScan 8000	Universal case with belt clip	PC-P080	dlpscas1
• Mounting plate	Magellan 2200VS	Metal plate for vertical installation	11-0174	psmgrm
• Mounting frame	Magellan 2300HS	Mounting frame for horizontal installation	11-0178	psmgcm

Power Supply	suitable for	Description	Datalogic PN	Item Number
• Power supply	Gryphon, Dragon, Firescan, Lynx*	Power supply for 5V power supply	90ACC1891	dlfpspg5
• Power supply	Gryphon, Dragon, Firescan, Lynx*	Power supply for 5V power sup. w/o cable	90ACC1882	dlfpspg555
• Power supply	OM-3000/3010/Gryphon	Power supply for 12V power supply	90ACC1895	dlfpspg12
• Power supply	Magellan 2200/2300, Falcon**	230 V (EU)	4004-0798	psmgps1
• Power supply	Magellan 2200/2300, Falcon**	230 V (UK)	4004-0795	psmgps4
• Power supply	Magellan 1000i/1400i	Power supply for 5,2 V power sup. w/o cable	4004-0746	psmgps2

* also for Diamond, Lynx, FireScan / ** also for PowerScan, Quickscan

More cables, accessories, adaptors and power supplies available on request.

the MOBILE SOLUTION in your POCKET!

New

DATALOGIC™
memor

The Datalogic Memor™ pocket mobile computer now offers shirt pocket convenience with Windows Mobile 6.1, an imaging bar code scanner, and Edge connectivity.

small

rugged

secure

intuitive

DATALOGIC™
www.mobile.datalogic.com

Datalogic Memor

- **Mobile data collection – the miniature form**
- **Fast XScale PXA 310 processor with 624MHz and 128MB RAM**
- **Laser scanner / optional 2D Imager for track and trace applications**
- **Windows Mobile 6.1 / Windows CE 5.0**
- **GSM on Edge basis for communication**
- **Twenty rubber keys and multifunctional joystick**
- **Robust IP54 industry standard compliant design**

DATALOGIC™ memor

Even higher and better performance awaits you with the new version of the successful Memor. Small, light, ergonomic, robust and versatile, the key features of the mini mobile terminal from Datalogic have been once again improved. Developed especially for applications in retail and in the field, the handheld terminal now has a faster processor, more memory, optional Windows Mobile 6.1 and a 2D imager, as well as mobile radio communication. Further innovations are found in the battery, keyboard and the audio options.

Of course, the relaunch of the proven mobile terminal features excellent ergonomics and a lightweight that prevent user fatigue, while the long-lasting, more powerful lithium-polymer batteries last for an entire shift. The Windows CE 5.0 or Mobile 6.1 operating systems allow installation of various applications, while operation of the device via a touchpad and touch screen simplifies handling enormously. Wireless options (Wi-Fi, Bluetooth and Edge) make the Datalogic Memor the ideal companion in retail and logistics. The integrated telephone functions (GSM/GPRS/EDGE) simplify communication or are useable for your own applications.

The tiny size of 15 x 5.5 cm and approx. 230 grammes make the Datalogic Memor only slightly larger and heavier than a mobile phone. Despite its size, this minicomputer contains the full functionality that is needed for mobile data collection and processing: the efficient integrated laser scanner reads all standard bar codes at up to 110 scans per second even at a distance of up to 90 cm. An area imager is now available to you for 2D applications with higher resolution and image capture.

More memory, a faster processor and a perfect connection
The fast XScale PXA 310 processor with 624MHz ensures better performance, while 128MB RAM and 256 MB Flash Memory provide additional security for storing of user and program data. The user-accessible MicroSD slot makes expansion with standard SDHC compatible cards easy and inexpensive.

Connection to all existing systems can be achieved in three different ways: the basic version operates as offline mini computer with memory. Data transmission between host and device is performed over the integrated standard interfaces (RS232 and USB). For professional online integration into ERP systems or databases, the Wi-Fi version of the Memor with internal IEEE 802.11b/g adaptor, Cisco-certified CCX v4 radio and antenna are recommended. The result is a smooth real-time connection into any company network, even in large areas or outdoors. In this way, you achieve real-time connection in every company network without difficulty, even over large areas or outside. A version with Bluetooth interface is also available, as is GSM with Edge basis, which enormously expands your customers' range of functions through quad-band mobile telecommunication.

Extremely robust with almost unmatched ergonomics
In addition to extraordinary technical performance and various options, the Memor is also designed for demanding work where its sturdiness is required. In addition, the device is water and dust-resistant according to IP54. The large temperature range allows for use in applications inside as well as outside. Compact dimensions in combination with its light weight supply the terminal with excellent ergonomics, superb handling and user-friendly balance.

Every Memor comes in a ready-to-use kit with a lithium-polymer battery and belt clip. Fully charged, the battery provides up to seven hours of operation. If no charged battery is available simply use commercially available AAA alkaline cells. An AC adaptor with a power supply cord and a USB cable are supplied with every standard version. You can optionally choose a matching base station for easy data transmission and recharging of additional batteries - a multi cradle or vehicle cradle with RS232 are optionally available. In addition, you have diverse options such as an adaptor for cigarette lighters, an alkaline battery adaptor and a soft case. This and further information on Memor accessories can be found on page 38.

Specifications	Item number
• Memor, WLAN, BT, 128MB RAM, CE 5.0	dlmebtwr1
• Memor, WLAN, BT, 128MB RAM, WM 6.1	dlmebtwr2
• Memor, EdgeE, BT, 128MB RAM, WM 6.1	dlmebtwr3
• **All versions include:**	
• Battery, cable and PSU	

Datalogic Skorpio Gun

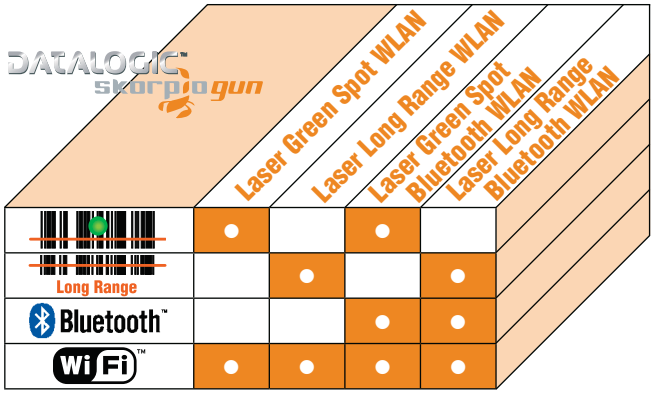
- **Portable data collection with pistol grip - high ergonomics for fatigue-free work**
- **Optional with Wi-Fi, Bluetooth and simplified numeric keyboard**
- **Highly efficient laser scanner integrated**
- **Colour display with touch screen (240x320 pixels)**
- **Windows CE 5.0 - new: optionally with Windows Mobile 6.1**
- **Patented »Green-Spot« indication – bar code scanning made easy**
- **Water and dust resistant – IP64 compliant**

The Datalogic Skorpio-Gun offers leading reliability and robustness for industrial applications. It was designed for operation under harsh conditions and withstands even multiple drops and excessive stress. Excellent ergonomics and a low weight protect users from fatigue while the high-capacity lithium-ion batteries last the entire shift. The powerful laser scanner with integrated »Green Spot« display read confirms directly on the bar code, simplifying operation significantly. Optional long-range scanning allows scans from a distance of the length of an arm up to several metres.

The system architecture of the Skorpio-Gun combines a fast Intel X-Scale CPU (312MHz, 128MB RAM) with the professional »slim« version of the Windows CE 5.0 or optionally the WM 6.1 operating systems. Bluetooth and Wi-Fi (802.11 b/g) for wireless communication permit high transfer rates and seamless communication with any existing customer system. Meanwhile, the modern WPA and WPA2 security protocols protect the data from unauthorised access.

The Skorpio-Gun version is available in four different variants (see illustration): the standard laser scanner gives the advantage of the patented »Green Spot« feature that places read confirms clearly visible onto the bar code itself. In this way, successful reads are confirmed easily even in noisy environments. The standard version reads at a distance of 5 to 90 cm for 40mil code. The long range laser scanner reads 40 mil codes at a distance of 20 to 200 cm. These scanners also read reflective labels at long distance. The long range option makes the Skorpio the best scanner of its class and gives you an enormous competitive advantage.

The Datalogic Skorpio-Gun is equipped with a clearly visible colour display (240x320 pixels) and a scratch-resistant protective coating. The 8.9cm (3.5") touch display can be used for user input as well as the practical alphanumeric keypad with 38 keys.



The Skorpio now also is available as a 28-key version with enlarged number keys for a better handling. In order to enhance concentration and minimise errors, a film is supplied with which letters and symbols printed on the keys can be hidden.

This scanner gun is fully capable of classical terminal applications with DL-TCL-NET software clients. This very modern web-based solution uses the Microsoft Internet Explorer with a DL locked browser applet. Developers use MCL Collection to programme single or multiple data collection solutions in only a short time, while Wavelink Avalanche offers centralised remote management, configuration, synchronisation or firmware updates for all portable data collection devices.

A low, balanced weight that is compact yet robust as well as the latest hardware, software and wireless technology are the essential characteristics that make the Skorpio-Gun a pioneer in the field of mobile data collection. Derived from the successful Datalogic Gryphon, it has the most comfortable grip and trigger that can be found in warehouse management applications. Its universal shape guarantees perfect handling, even with gloves. It was especially designed for work-intensive applications and excels at simple carrying and improved transmitting capabilities.

Protection against drops from 1.5 m height and IP64 compliant protection against water and dust make this scanner the best of its kind and the perfect choice for harsh environments. The wide temperature range also allow applications outdoors as well as indoors.

The Datalogic Skorpio-Gun is equipped with lithium-ion batteries that guarantee a high grade of independence for communication, or while collecting and processing data. The battery can be changed within seconds without having to physically switch off the device. During a battery change, all data is safely buffered for up to two minutes.

Specifications	Item number
• Skorpio-Gun, WLAN, laser scanner	dlskgw1
• Skorpio-Gun, WLAN, BT, laser scanner	dlskgw2
• **To be ordered in any case:**	
• Required cradle and PSU	see page 38

Datalogic Skorpio

- **Portable data collection for industry and logistics**
- **Water and dust resistant – IP64 compliant**
- **Optionally with Wi-Fi, Bluetooth and simplified numeric keyboard**
- **Colour display with touch screen (240x320 pixels)**
- **Highly efficient integrated laser scanner**
- **Windows CE 5.0 - new: optionally with Windows 6.1**
- **Patented »Green Spot« for easier bar code scanning**

The Datalogic Skorpio is a portable and robust computer with touch screen and Windows CE that is especially designed for retail solutions in sales as well as warehouses. Its ergonomic design minimizes the user's fatigue like no other comparable device on the market. Rough working conditions, heavy impacts and vibrations cannot impair the Skorpio's reliability due to its robust design.

Its system architecture is based on a powerful combination of the Intel X-Scale microprocessor and the latest Windows CE operating system. 64MB RAM and 64MB Flash memory guarantee safe user and application data, and easy upgrades at any time. An integrated backup battery helps to save all scanned data for 20 minutes during power failures. The Skorpio also features a memory extension slot for mini SD cards. This makes the use of memory-intensive applications possible and guarantees easy data exchange. Furthermore, the Skorpio is equipped with a bright colour display and a touch screen that offers an enormously good viewing angle for effective and ergonomic work. In addition to the touch screen, the keypad with 38 rubber keys speeds up input of data, codes and other details. The Skorpio is also available with a simplified numeric keyboard of 28 keys. The enlarged numeric keys ensure easier operation and a foil, optionally included in the delivery, covers up the standard printed letters and numbers, guarantying a focused numeric entry and minimising errors.

Seamless connection to wireless networks is available through an integrated optional Wi-Fi interface. Use the Skorpio to realise real-time applications in warehouse and distribution systems, for direct database access or integration of ERP systems. All this is done with standard tools. If you choose the Bluetooth version, even basic wireless communication to other devices like portable label printers, mobile phones or Bluetooth access points is made easy.

The Datalogic Skorpio supports all conventional text-based data collection applications as well as current web-based graphical solutions. Programmers develop simple applications for mobile data collection as well as complicated ones with MCL collection. IT managers find only praise for the easy centralised device management using the Wavelink Avalanche software for remote administration, software synchronization and firmware upgrade or driver updates.

A lithium-ion battery guarantees a long mobile operating time. The standard Skorpio includes a rechargeable battery and a belt clip.

Specifications	Item number
• Skorpio, WLAN, 64 MB RAM/Flash, 312 MHz	dlskwr1
• Skorpio, WLAN, BT, 128MB RAM/Flash, 520 MHz	dlskwrbt1
• **To be ordered in any case:**	
• Required cradle and PSU	see page 38

Datalogic Kyman

- **Mobile data collection with laser**
- **Version with pistol grip, Windows Mobile 6.0 or CE5.0 preinstalled**
- **Large colour display with integrated touch screen**
- **Optional Wi-Fi or Bluetooth interface**
- **Water and dust resistant – IP64 compliant**

The sturdy Kyman hand-held terminal is the new key element in the Datalogic mobile product family that focuses on automation for field work and logistics. The low weight combined with an ergonomic design herald a new generation of devices.

The device is equipped with the latest system architecture and technology. It is based on a powerful combination of the Intel XScale microprocessor and the Windows CE operating system. 64MB RAM and 64MB flash memory guarantee safe user and application data and easy upgrades at any time. Accordingly, this terminal is ready equipped for future requirements of demanding users, though conventional text-based and web-based applications are supported as well. The Kyman is available in various keypad versions and designs for individual customers needs on request.

High reliability for long-term use of the Kyman is not only guaranteed by its excellent design, but also by a protective film on the touch screen that is standard for all Datalogic MDA devices. If the touch screen has too many scratches, you only have to replace the film at almost no extra cost. The IP64 certification testifies to its durability. The robust housing with an impact protective cover is designed for use under harsh conditions: it can even withstand extreme impacts (such as repeated drops of 1.5 m in tests) without impairing scanning performance. With its aggressive, integrated laser scanner, the Kyman reads 1D bar codes automatically and transmits the information instantly over the optional Bluetooth or Wi-Fi interface.

The Datalogic Kyman gives users exactly what they need in everyday work: reliability, a robust and impact-resistant housing, long-life rechargeable batteries, flexible communication and highly efficient data collection. In order to optimise mobile applications, a new freely accessible slot for memory cards (Mini SD) was added that makes data backup, extended databases, etc. easily available.

We now offer you all Versions of the Kyman with removeable pistol grip and preinstalled Windows CE 5.0. Its sturdy outer casing (IP64) with overmold protection has been designed to resist harsh environments, multiple drops, strong shocks as well as sub-zero temperatures.

Specifications	Item number
• Kyman, Batch, alpha-keyboard, incl. battery	dlky1
• Kyman, WLAN, alpha-keyboard, incl. battery	dlkymr1
• **To be ordered in any case:**	
• Required cradle and PSU	see page 38

Datalogic elf

- **Robust industrial PDA for professional data collection in industry and logistics**
- **Mobile touch terminal with high performance: 624 MHz processor, 128 MB RAM/Flash**
- **With 3MP camera and either 1D laser scanner or 2D imager**
- **Windows Mobile 6.5 preinstalled incl. all tools**

The industrial PDA »elf« from Datalogic impresses not only with its absolutely robust construction and perfect ergonomics, but also with its enormous power and never before seen functionality in a handy format. Whether indoors or outdoors – the device can be operated one-handed using the touch screen (640x480 pixels) or keyboard (27 numeric or 46 QWERTY keys). The powerful memory and performance guarantee high quality data processing: the fast 624 MHz XScale processor, 256 MB RAM/Flash and the integrated Micro SD Slot ensure high speed and security.

The PDA scans bar codes either via 1D laser scanner or 2D imager, while the integrated 3 megapixel camera reads images and signatures. A selection of four wireless technologies are available for secure data transmission: Bluetooth 2.0 EDR, 802.11 a/b/g with Cisco CCX V4 certification, UMTS HSDPA for mobile voice and data communication, or GPS for navigation and positioning, as well as the optional 13.56 MHz RFID scanner are all included as standard in the compact PDA, providing sophisticated features for every application.

Specifications	Item number
• Elf, Bluetooth, WLAN, num. 27 keys, 1D laser	dlelf
• Elf, Bluetooth, WLAN, alphanum. 46 keys, 2D imager	dlelf-4

Datalogic Falcon X3

- **Real-time data collection terminal for retail and logistics**
- **Integrated 1D laser scanner or 2D imager with 3MP camera**
- **Either Windows CE 6.0 or Windows Mobile 6.5 preinstalled**
- **8.9 cm (3.5“) TFT colour display, 320x240 pixels touch screen**

The new generation of the Falcon mobile terminal impresses with robust construction (IP64), ergonomics, diverse features and intelligent tools for configuration and maintenance – perfectly adapted to the different requirements in retail, sales centres and warehouses.

It features either a 1D laser scanner (HP or XLR) or 2D imager incl. 3MP camera. Besides the powerful performance (scanning range of up to 380 cm), data is entered using the 320x240 pixel display with touch screen or the backlit keypad with 29 or 52 keys. The Intel XScale processor with 624 MHz processes the data extremely quickly, while the parallel computer architecture with co-processor guarantees smooth operation of multi-task applications. 256 MB RAM/Flash, Windows CE 6.0 or Mobile 6.5 as well as the wide assortment of interfaces (USB, RS232, Ethernet, Bluetooth) further ensure absolute flexibility for meeting every need. The long operating times of the lithium-ion battery, diverse tools and emulations, as well as the large supply of accessories for handheld and pistol grip versions expand the range of applications many times over.

Specifications	Item number
• Falcon, Bluetooth, WLAN, num. 27 keys, 1D laser	dlfa-1
• Falcon, Bluetooth, WLAN, alphanum. 46 keys, 2D imager	dlfa-2

Information

PAL – OUT-OF-THE-BOX SOFTWARE SOLUTION FROM DATALOGIC

- **Fully fledged inventory management software direct from the manufacturer – free!**
- **Ideal for incoming/outgoing goods, logistics, inventory and orders**
- **Immediately usable, or very easy to individualise**
- **Compatible with Windows Embedded CE and Windows Mobile**
- **Included PAL Communicator for rapid and simple data transfer**

With PAL, Datalogic offers users a smart and high-performance software solution for the rapid stock taking in retail, warehouses or field service. Users receive efficient Windows-based support in order management, logistics and data transfer during inventory. He has a finished tool at his disposal and can individually assign fields for direct registering of goods or incoming orders. Its integrated PAL Communicator transfers the data fully automatically to a connected PC, rounds it off and displays it in different applications.

The advantage of PAL is quite simply that it fulfils all requirements set by its segment, standard. There is no need for programming, meaning more value for you: with the out-of-the-box solution, you sell the terminals without any extra work required and earn double! For individual conforming and expansion, you can use the software as a platform via Source Code; you will be amazed at its simplicity and efficiency. The Datalogic elf and Datalogic Falcon also have this useful tool pre-installed. For all other devices, you can download the software free of charge from the manufacturer's website: **www.datalogic.com**

Ultimate Performance!

New

falcon™ X3

The new Datalogic Falcon™ X3 mobile computer delivers the ultimate in ruggedness, ergonomics, and real time data capture in an easy solution to develop for, deploy and manage.

extremely rugged

real time speed

1D/2D with green spot

XLR extended range

crystal clear display

DATALOGIC™

DATALOGIC MOBILE

www.falcon.mobile.datalogic.com

Datalogic Formula 734-E

- **Datalogic's best-selling mobile computer**
- **LCD display (4x16 characters)**
- **Small and compact: only 165x56x32mm**
- **Best price-performance-ratio in its class**
- **Low weight for fatigue-free work**
- **Integrated laser scanner**
- **25 silicon keys (alphanumeric)**

The Formula 734-E pocket-sized terminal is extremely light (only 184 g), fully programmable and available as offline or wireless version with 433MHz. This gives the F734-E the best available price-performance ratio and makes it the ideal solution for many applications in retail, transport, logistics and production.

Its 1MB RAM stores large amounts of data easily. Consequently, the F734-E is perfectly prepared for most requirements in data collection. Fast-running programmes are possible through a high processor speed (8 bit CMOS) that again increases your customers' productivity enormously.

The device is equipped with an integrated laser scanner for all commercial 1D bar codes. Excellent reading capabilities and a high scan rate result in bar code scans from a distance of up to 70 cm – even with badly printed and damaged bar code labels. Successful scans are indicated on the Formula 734-E visually through two-coloured LEDs and an integrated piezo-electric buzzer that allows free programming of frequency and volume.

A large backlit LCD-screen with 4 rows of 16 characters each displays all information clearly. Use the practical keypad with 25 ergonomically arranged alpha-numeric silicone keys for number and text input.

Customer-specific device programming is to be carried out with software packages for Windows, like EasyGen or Development system for Formula. With this free software you easily generate new applications for inventory, warehouse management, and goods, especially in retail.

The Formula is ideal for intensive use under harsh industrial conditions: it features a high-impact resistant housing and is sealed against water and dust-entry. Long-life rechargeable batteries (NiMH) guarantee continuous operation of over eight hours.

The standard Formula includes a rechargeable battery and a belt clip. An overview of the extensive range of accessories for the Formula 734-E and all other MDE devices by Datalogic can be found on page 38.

Specifications	Item number
• Formula 734-E, Batch, 1 MB RAM, incl. battery, grey	dlf734e1
• **To be ordered in any case:**	
• Required cradle with PSU	see page 38

Datalogic Cable and Accessories

Cables	suitable for	Description	Datalogic PN	Item Number
• PS/2	Magellan 1000/1400, Falcon, PowerScan, QuickScan	9D, S, external Power, twisted, 3.5 m	8-0741-17	pscab74117
• PS/2	Magellan HS/VS	straight, grey, 4.5 m, AT/PS2	8-0735-01	pscab73501
• RS232	Magellan 1000/1400, Falcon, PowerScan, QuickScan	6MDIN, P&S, E/P-POT, twisted, 3.5 m	8-0736-80	pscab73680
• RS232	Magellan HS/VS	straight, grey, 4.5 m	8-0730-04	pscab73004
• RS232	elf	Mobile cable, RS232 Handylink	94A051972	dlcabrc
• USB	Magellan 1000/1400, Falcon, PowerScan, QuickScan	twisted, black, 3.5 m, POT	8-0734-16	pscab73416
• USB	Magellan 1000/1400, Falcon, PowerScan, QuickScan	straight, black, 2.0 m, POT, High-Speed	8-0734-10	pscab73410
• USB	Magellan HS/VS	Type A, E/P, 4.5 m	8-0732-04	pscab73204
• USB	Pegaso	Powered USB-Cable, 2.0 m	95A051078	dlpecabu
• USB	elf	Mobile cable, USB Handylink	94A051970	dlcabuc
• Micro USB	elf	Micro USB cable, to PC as client	94A051968	dlcabmuc
• Micro USB	elf	Micro USB cable to USB Typ A connector as host	94A051969	dlcabmuh
• Patch cable	Skorpio	USB connection cable, connects base station to PC	94A051017	dlcab381
• Patch cable	Formula	RS232-Cable for PC/AT, 9 pol. Sub-D, 2.0 m	94A054000	dlcabf734

Please see next page

Datalogic Cable and Accessories

Accessories	suitable for	Description	Datalogic PN	Item Number
• Battery	Falcon	Lithium-ion battery, rechargeable	11-0023	ps4420batt
• Battery	Falcon	Lithium-ion battery, 3.7 V, 2400 mA	95ACC1302	dlfabat1
• Battery	J-Series	Lithium-ion battery, 7.4 V, 1070 mA	94ACC1293	dljtbat1
• Battery	J-Series	Lithium-ion battery, 7.4 V, 1800 mA	94ACC1294	dljtbat2
• Battery	Kyman	Lithium-ion battery, 7,2 V, 2200 mA	94ACC1302	dlkybat1
• Battery	Memor/Formula	Lithium-ion battery, 3.6 V, 1000 mA	94ACC1326	dlmebat2
• Battery	Memor/Formula	Lithium-ion battery, 3.6V, 2000 mA (7.2W/h)	94ACC1325	dlmebat1
• Battery	Pegaso	Lithium-ion battery, 3.7 V, 2200 mA	95A201015	dlpebat1
• Battery	Pegaso	Lithium-ion battery, 3.7 V, 3300 mA	95A201016	dlpebat2
• Battery	Skorpio	Lithium-ion battery, rechargeable	94ACC1309	dlskbat1
• Battery	Skorpio	Lithium-ion battery, 3.7 V, 3300 mA	94ACC1329	dlskbat2
• Battery	Viper	Lithium-ion battery, rechargeable	94ACC4661	dlvibat1
• Battery	elf	Lithium-ion battery, rechargeable	94ACC1377	dlelfbat
• Docking station	Falcon 4400	220 volt, European standard, connection cable incl.	11-0125	ps4420cr
• Docking station	elf	RS232, USB, power supply unit, spare battery slot	94A151124	dlelfcr
• Docking station	Formula 725	Docking station for F725	94A154052	dlf725cr
• Docking station	J-Series	Single-charger, USB, without AC adaptor (see below)	94A151096	dljetcrad
• Docking station	Kyman	Single-charger, USB, without AC adaptor (see below)	94A151101	dlkycr
• Docking station	Memor/Formula	Single-charger, USB/RS232, add. charging slot, without AC adaptor (see below)	94A151111	dlmecr
• Docking station	Pegaso	Single-Charger, USB/RS232, add. charging slot, connection via Pegaso power supply	95A151051	dlpegcr
• Docking station	Skorpio	Single-charger, USB, without AC adaptor (see below)	94A151099	dlskcr
• Docking station	Viper	Single-Charger, USB and RS232, RS232 cable included, without AC adaptor (see below)	94A151090	dlvicr
• Charger	Falcon	Battery charger, 1-Slot, includes power supply	95A151012	dlfa1chg
• Charger	Falcon	Battery charger, 4-Slot, includes power supply	95A251026	dlfa4chg
• Charger	J-Series	Battery charger, 4-Slot, includes power supply	94A151098	dlje4chg
• Charger	Kyman	Battery charger, 4-Slot, includes power supply	94A151102	dlky4chg
• Charger	Pegaso	Battery charger, 4-Slot, includes power supply	95A251020	dlpe4chg
• Charger	Skorpio	Battery charger, 4-Slot, includes power supply	94A151114	dlsk4chg
• Charger	Viper	Battery charger, 4-Slot, w/o power supply	94A154840	dlvi4chg
• Battery holder	Memor/Formula	Holder for standard AAA batteries	94ACC1327	dlmebh
• Safety case	Falcon	Belt case for Falcon	95ACC1056	dlfcas1
• Safety case	Falcon	Belt case for Quick Release for Falcon	95ACC1057	dlfacas2
• Safety case	Formula 725/734	Belt case for Formula 725/734	94ACC1267	dlf725pock
• Safety case	J-Series	Belt case for J-Series	94ACC1287	dljecas1
• Safety case	J-Series	Belt case for J-Series with special bracket	94ACC1307	dljecas2
• Safety case	Kyman	Belt case for Kyman and Kyman Gun	94ACC1342	dlkycas1
• Safety case	Kyman	Belt case Cordura with belt strip	94ACC1303	dlkycas2
• Safety case	Skorpio	Protective and carrier bag	94ACC1311	dlskcas1
• Safety case	Skorpio	Protective and carrier bag for Skorpio Gun	94ACC1330	dlskcas2
• Safety case	Viper	Protective and carrier bag with belt strip	94ACC1272	dlvicas1
• Pistol grip	Pegaso	Handle, attachable	95ACC1296	dlpegun1
• Belt strip	Pegaso	Belt clip with anchor	95ACC1297	dlpeclip

Power Supply	suitable for	Description	Datalogic PN	Item Number
• Power supply		AC adaptor for chargers (power cord not included)	94ACC4595	dlfps18
• Power cord		Power cord for AC adaptor (see above)	94ACC1150	kabeurosw
• Power supply	Memor/Formula	Direct power supply for Memor/Formula and cradle	94ACC1324	dlfpspg530

• Additional accessories such as protective cases, docking stations and more are available on request!

Datalogic R series

- **Rugged Vehicle mounted terminals for production, logistics and warehouse management**
- **Large, clearly readable backlit colour displays with touch screen in different sizes: 17.8 cm (7”), 25.4 cm (10”), 30.5 cm (12”)**
- **Preinstalled Windows CE 5.0 and Wavelink Avalanche Device Management**
- **Resistant aluminium housing, especially useful in harsh environments (IP65, IP66 and IP67)**
- **Different interface options, Wi-Fi on board**
- **Diverse mounting options and direct connection for wired bar code scanners**

The new Datalogic R series offers you state-of-the-art vehicle terminals for professional logistics and warehouse applications. The products meet various needs in stocktaking, stock management, shipping and goods input. Different display sizes and a large range of mounting options are available for almost every vehicle type. The R series is versatile and designed with high flexibility in mind. Advanced retrofitting options allow users to connect external keyboards and handheld scanners after installation. The devices offer improved durability using aluminium housings, which are especially useful in harsh environments, like cold storage, production and outdoors.

Vehicle terminals are essential for reducing errors in logistics operations such as stock storage or removal and shipping. The portable data collection devices of the Datalogic R series were designed for warehouse management and will increase your customers’ productivity enormously. All components are highly durable and impact-resistant to guarantee a very long service life. The terminals are available in three different sizes of 17.8 cm (7”), 25.4 cm (10”), 30.5 cm (12”). Each terminal is equipped with a large, clearly readable backlit colour touch display. The use of 2-tailed technology makes the screens very robust and guarantees non-stop use over prolonged periods. An optional 17.8 cm (7”) version with vertical display is available on request. Apart from forklift applications, the small models make excellent additions in machines and agricultural applications.

The pre-installed Windows CE 5.0 operating was specially developed for industrial applications and is 100% compatible with your customers’ existing systems. The terminals are equipped with a 520 MHz Marvell X-Scale CPU, 128 MB RAM and 128 MB flash memory. The advantages are not only extraordinary performance, but also a large range of supported applications. This includes standard PCMCIA extension cards, e.g. for UTMS connectivity, and CF cards for memory expansion.

The front side of the devices features a linear numeric keypad and function keys for various applications. The optional software keyboard with 25 different layouts in eight languages is intended for alphanumeric input. If required, optional external QWERTY or ABCD keyboards can be easily installed with mounting options in the vehicle as well.

Naturally, the terminals are particularly efficient in combination with professional bar code scanners from Datalogic. Simply connect the scanners via USB and RS232, or use Star Modems to connect the terminals wirelessly.

Apart from two RS232 ports (of which one can be used to power external hand-held devices), the interface range includes three USB ports (1 x USB 2.0 for host connections, 1 x Mini USB 1.1 »on-the-go«, and 1 x Mini USB for client connections).

DATALOGIC™

For convenient access to most networks, the devices feature an integrated 802.11b/g Wi-Fi interface. This makes real-time data transmission to local networks not only extremely simple but also very secure. The preinstalled, licensed remote management suite Wavelink Avalanche allows seamless device management, while the configuration tool Wavelink Terminal Emulation makes configuration easy.

The fanless aluminium design of the R series provides state-of-the-art durability: even strong vibrations and impacts on vehicles with only limited suspension do not harm these devices. In order to meet different vehicle specifications, all terminals come with a five-metre power supply cord that is directly connected to the vehicle's electronics. Forklift adaptors counteract voltage fluctuations of up to 20 seconds and make additional converters obsolete.

The 25.4 cm (10") and 30.5 cm (12") versions are also available with an optional automatic power on/off mechanism: The terminal can be connected to the ignition system with a freely adjustable timer to align terminal functions and work processes perfectly. Furthermore, an optional heating coil ensures operation in cold storage areas or outdoors at temperatures up to 30°C below zero throughout the year. With the highest individual protection class IP67, the devices are perfectly protected against moisture, dirt and cleaning agents.

We offers extensive accessories, a large range of different mounting brackets, external keyboards with ABCD or QWERTY layout, as well as suitable handheld scanners. Whether it is a PowerScan handheld scanner or a portable terminal for additional input, we offer a complete range of products, all accessories inclusive.

Specifications	Item number
• R series,17.8 cm (7") LCD display with integrated touch screen, 500cd/qm, 480x234 Pixel, 128 MB RAM/Flash, Wi-Fi 802.11b/g, Windows CE, 2xUSB, 2xRS232	dlr7
• R series, 25.4 cm (10") LCD display with integrated touch screen, 230cd/qm, 800x600 Pixel, 128 MB RAM/Flash, Wi-Fi 802.11b/g, Windows CE, 2xUSB, 2xRS232	dlr10
• R series, 30.5 cm (12") LCD display with integrated touch screen, 350cd/qm, 800x600 Pixel, 128 MB RAM/Flash, Wi-Fi 802.11b/g, Windows CE, 2xUSB, 2xRS232	dlr12

elf™
The World in Your Hand
markadv.it
Technology and ruggedness, combined with revolutionary ergonomics and blazing speed: Elf™, Datalogic Mobile 's new PDA, the device geared for Field Force Automation and Retail applications.
Datalogic Power 3
Boost your business with innovative technology, times 3!
The Elf™ delivers ergonomics, rugged construction, laser and image data capture, along with real time computing and communication speed in a product that is easy to develop for, deploy and manage.
PROFESSIONAL
EASY&INTUITIVE
REAL TIME
VOICE&DATA
4 radios
capture options
camera
qwerty numeric
green spot
MOBILE @work™
DATALOGIC™
DATALOGIC MOBILE
www.elf.mobile.datalogic.com

Solutions for Automatic Identification, Barcodes and Mobility

More than 3000 customers in 15 countries • More than 12,000 products in stock

www.logiscenter.com
902 050 030

www.logiscenter.it
02 479 216 97

www.logiscenter.de
info@logiscenter.de

www.logiscenter.pt
308 800 842

About LOGISCENTER

Grupo Logiscenter is the leading provider in Europe of automatic identification and data capture equipments. Our products include barcode printing and reading devices, mobile computing devices, wireless access points, identification cards, and consumables.

Reasons to work with us

Our customers come first. Our objective is not only selling our products but also holding a long-lasting relationship with our customers, based on the befenits and advantages we create for you and your company.

The best brands. We offer products from the best manufacturers worldwide.

Expert technical support team. Our support staff are experts in the products we sell. But not just the products, they can tell you the best solution for your particular problem or need.

Largest stock. We have a permament stock of more than 12,000 products.

Same-day shipping. For all orders placed and confirmed before 16:00 on working days.

Best prices. With Logiscenter, you can be sure that you are paying a fair price for your products we will not overcharge you.

Easy returns. Damaged or defective products can be returned easily, for an exchange or reimbursement.

Our Brands

MOTOROLA
ZEBRA TECHNOLOGIES
Intermec
Honeywell
DATALOGIC
datamax·o'neil
Metrologic
LXE
EPSON
elo
star
unitech
PRINTRONIX
symbol

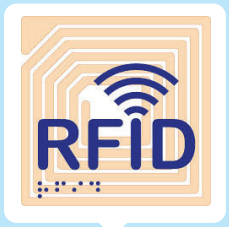
Solutions for: Industry • Consumer • Mobility Transportation and Logistics • Retail • Health

Label printers

Barcode readers

Data terminals & PDA

PVC card printers



RFID

Consumables
(labels, ribbons, PVC cards)

All Brands Technical Service

GRUPO LOGISCENTER, S.L. - The Barcode Solutions Center
Av. Puente Cultural 10-A • 28702 San Sebastián de los Reyes - MADRID (Spain)
CIF ES B85538601 • info@logiscenter.com • www.logiscenter.com